FUJIFILM

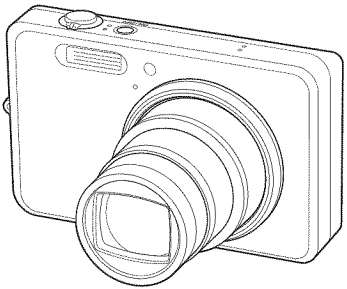
BL00830-202 E

DIGITAL CAMERA

FINEPIX J250
FINEPIX J210

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM FinePix J250 or J210 digital camera and the supplied software. Be sure that you have read and understood its contents before using the camera.



For information on related products, visit our website at
http://www.fujifilm.com/products/index.html

Exif Print SD PictBridge CERTIFIED FOR Windows Vista

Before You Begin

First Steps

Basic Photography and Playback

More on Photography

More on Playback

Movies

Connections

Menus

Technical Notes

Troubleshooting

Appendix

Camera Q & A

Find items by task.

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About This Manual

This manual is for use with the following FinePix cameras: the J250 and J210. With the exceptions of the minor differences summarized in the following table, all operations are identical; save where otherwise noted, the illustrations in this manual show the J250.

	FinePix J250	FinePix J210
DUAL IS MODE (pg. 16)	✔	—
PICTURE STABILIZATION (pg. 33)	—	✔
Monitor (pg. 96)	3.0-inch	2.7-inch
Scenes (SP; pg. 32)		

For information on specific topics, consult the sources below.

✔ *Camera Q & A* *pg. ii*

Know what you want to do but don't know the name for it? Find the answer in "Camera Q & A."

✔ *Table of Contents* *pg. iv*

The "Table of Contents" gives an overview of the entire manual. The principal camera operations are listed here.

✔ *Troubleshooting* *pg. 83*

Having a specific problem with the camera? Find the answer here.

✔ *Warning Messages and Displays* *pg. 89*

Find out what's behind that flashing icon or error message in the monitor.

✔ *Glossary* *pg. 93*

The meanings of some technical terms may be found here.

Symbols and Conventions

The following symbols are used in this manual:

Caution: This information should be read before use to ensure correct operation.

Note: Points to note when using the camera.

Tip: Additional information that may be helpful when using the camera.

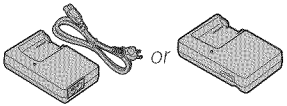
Menus and other text in the camera monitor are shown in bold. In the illustrations in this manual, the monitor display may be simplified for explanatory purposes.

Supplied Accessories

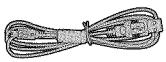
The following items are included with the camera:



NP-45 rechargeable battery



BC-45A battery charger (with power cable or built-in plug)



USB cable



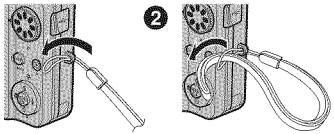
FinePix software CD (IMPORTANT: read license agreement on the last page of this manual before opening)



Strap

Attaching the Strap

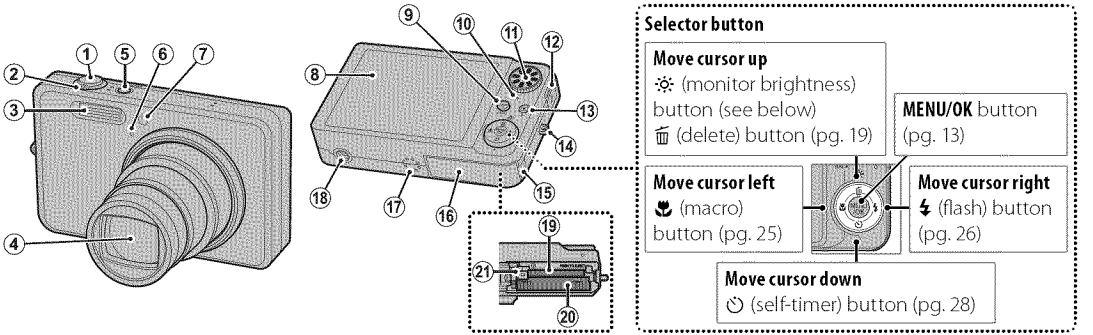
Attach the strap as shown.



Owner's Manual (this manual)

Parts of the Camera

For more information, refer to the page listed to the right of each item.



1 Shutter button 17
2 Zoom control 15
3 Flash 26
4 Lens and lens cover 12
5 **ON/OFF** button 12
6 Microphone 40
7 Self-timer lamp 29
8 Monitor 3
9 **DISP** (display)/**BACK** button 16, 35
10 Indicator lamp 18
11 Mode dial 4
12 Connector for USB cable 44, 55
Connector for A/V cable 43
13 ▶ (playback) button 35
14 Strap eyelet 1
15 DC coupler cable cover 81
16 Battery-chamber cover 7
17 Speaker 42
18 Tripod mount
19 Memory card slot 10
20 Battery chamber 7
21 Battery latch 7

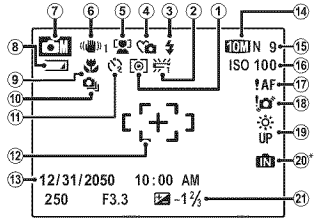
Tip: Monitor Brightness

Pressing the ☼ button briefly increases monitor brightness, making the display easier to see in bright light. Normal brightness is restored when a photograph is taken.

The Monitor

The following indicators may appear in the monitor during shooting and playback. The indicators displayed vary with camera settings.

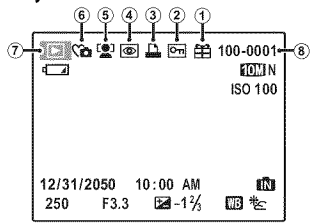
■ *Shooting*



* IN: Indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (pg. 9).

1 Metering 62
2 White balance 62
3 Flash mode 26
4 Silent mode 18
5 Intelligent Face Detection indicator 20
6 DUAL IS mode 16
7 Shooting mode 30
8 Battery level 14
9 Macro (close-up) mode 25
10 Continuous shooting mode 63
11 Self timer indicator 28
12 Focus frame 17
13 Date and time 13
14 Quality 60
15 Number of available frames 94
16 Sensitivity 59
17 Focus warning 17
18 Blur warning 26
19 Bright monitor indicator 2
20 Internal memory indicator* 9
21 Exposure compensation 61

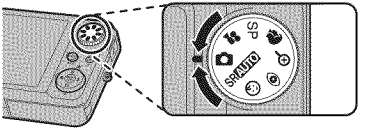
■ *Playback*



1 Gift image 35
2 Protected image 68
3 DPOF print indicator 47
4 Red-eye removal indicator 66
5 Intelligent Face Detection indicator 20, 66
6 Silent mode 18
7 Playback mode indicator 35
8 Frame number 76

The Mode Dial

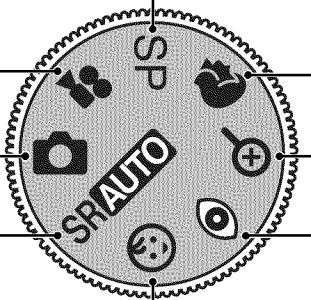
To select a shooting mode, align the mode icon with the mark next to the mode dial.



SP (SCENE POSITION): Choose a scene suited to the subject or shooting conditions and let the camera do the rest (pg. 32).

(MOVIE): Record movies with sound (pg. 40).

(PORTRAIT): Use for soft-toned portraits with natural skin tones (pg. 31).



(AUTO): A simple "point-and-shoot" mode recommended for first-time users of digital cameras (pg. 30).

(DIGITAL ZOOM): Increase zoom so that small or distant subjects fill the frame (pg. 31).

SR AUTO (SCENE RECOGNITION): A "point-and-shoot" mode in which the camera automatically adjusts settings to suit the scene (pg. 30).

(BABY MODE): Choose for natural skin tones in portraits of infants. The flash turns off automatically (pg. 30).

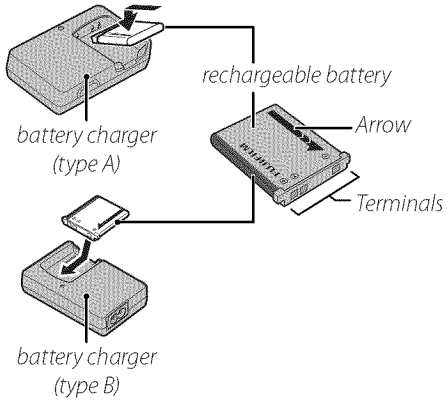
(RED-EYE REDUCTION): Reduce "red-eye" in portraits taken with the flash under low light (pg. 30).

Charging the Battery

The battery is not charged at shipment. Charge the battery before use.

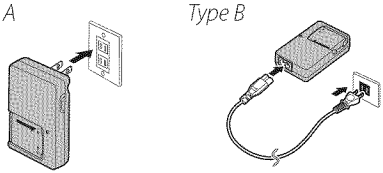
1 **Place the battery in the charger.**

Insert the battery into the supplied battery charger as shown, making sure that the battery is in the correct orientation. The battery charger comes in one of two types, depending on the country or region of sale: one with a built-in plug that plugs directly into the power outlet (A), and another that connects to the power outlet via a power cable (B).



2 **Plug the charger in.**

Plug the charger into a power outlet. The charging indicator will light.



The Charging Indicator

The charging indicator shows battery charge status as follows:

Charging indicator	Battery status	Action
Off	Battery not inserted.	Insert the battery.
	Battery fully charged.	Remove the battery.
On	Battery charging.	—
Blinking	Battery fault.	Unplug the charger and remove the battery.

3 Charge the battery.
Charging is complete when the charging indicator turns off.

Cautions: Caring for the Battery

- Do not affix stickers or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.
- Do not short the battery terminals. The battery could overheat.
- Use only rechargeable batteries. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.
- Read the supplied documentation for additional cautions concerning battery use.

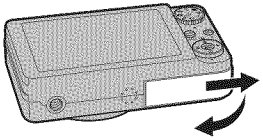
Cautions: Using the Battery Charger

- Unplug the charger when it is not in use.
- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Charging times increase at low temperatures.

Inserting the Battery

After charging the battery, insert it in the camera as described below.

1 Open the battery-chamber cover.



Note

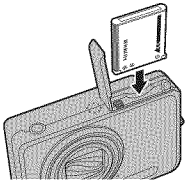
Be sure the camera is off before opening the battery-chamber cover.

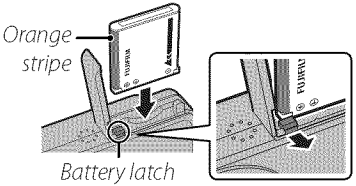
Cautions

- Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could result in damage to image files or memory cards.
- Do not use excessive force when handling the battery-chamber cover.

2 Insert the battery.

Insert the battery with the terminals first and the orange stripe aligned with the orange battery latch. Slide the battery into the camera, keeping the battery latch pressed to one side as shown below. Confirm that the battery is securely latched.

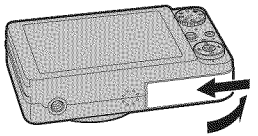




Caution

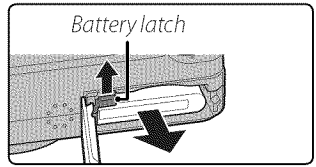
Insert the battery in the correct orientation. *Do NOT use force or attempt to insert the battery upside down or backwards.* The camera will not function if the battery is inserted backwards or upside down.

3 Close the battery-chamber cover.



Removing the Battery

After turning the camera off, open the battery-chamber cover, press the battery latch to the top, and slide the battery out of the camera as shown.



Caution

Turn the camera off before removing the battery.

Tip: Using an AC Adapter

The camera can be powered by an optional AC adapter and DC coupler (sold separately, pg. 81).

Inserting a Memory Card

Although the camera can store pictures in internal memory, SD memory cards (sold separately) can be used to store additional pictures.

When no memory card is inserted, IN appears in the monitor and internal memory is used for recording and playback. Note that because camera malfunction could cause internal memory to become corrupted, the pictures in internal memory should periodically be transferred to a computer and saved on the computer hard disk or on removable media such as CDs or DVDs. The pictures in internal memory can also be copied to a memory card (see page 69). To prevent internal memory from becoming full, be sure to delete pictures when they are no longer needed.

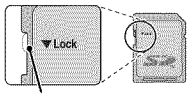
When a memory card is inserted as described below, the card will be used for recording and playback.

■ *Compatible Memory Cards*

SanDisk SD and SDHC memory cards have been approved for use in the camera. A complete list of approved memory cards is available at *http://www.fujifilm.com/products/digital_cameras/index.html*. Operation is not guaranteed with other cards. The camera can not be used with MultiMediaCard (MMC) or *xD-Picture Cards*.

Caution

Memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting a memory card, slide the write-protect switch to the unlocked position.



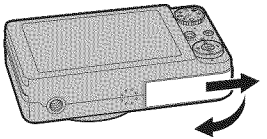
Write-protect switch

Memory Cards

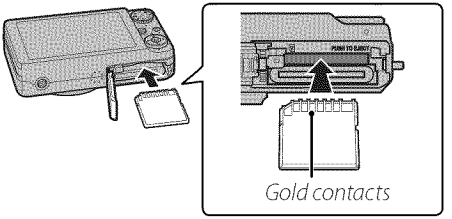
Pictures can be stored in the camera's internal memory or on optional SD and SDHC memory cards. In this manual, SD and SDHC memory cards are referred to as "memory cards."

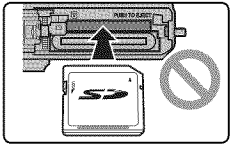
■ *Inserting a Memory Card*

1 Open the battery-chamber cover.



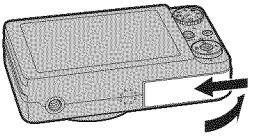
2 Insert the memory card.
Holding the memory card in the orientation shown below, slide it all the way in.





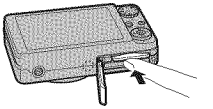
Be sure card is in correct orientation; do not insert at an angle or use force.

3 Close the battery-chamber cover.



Removing Memory Cards

Turn the camera off, and press the card to release it slowly. The card can now be removed by hand.



Cautions

- The memory card may spring out if you remove your finger immediately after pushing the card in.
- Memory cards may be warm to the touch after being removed from the camera. This is normal and does not indicate a malfunction.

Cautions

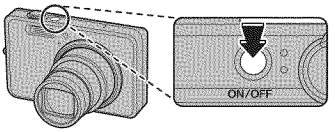
- Format memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 78.
- Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.
- Do not use miniSD or microSD adapters that expose the back of the card. Failure to observe this precaution may cause damage or malfunction. Adapters that are larger or smaller than the standard dimensions of an SD card may not eject normally; if the card does not eject, take the camera to an authorized service representative. Do not forcibly remove the card.



- Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card. Failure to observe this precaution could damage the card.
- Do not affix labels to memory cards. Peeling labels can cause camera malfunction.
- Movie recording may be interrupted with some types of memory card.
- The data in internal memory may be erased or corrupted when the camera is repaired. Please note that the repairer will be able to view pictures in internal memory.
- Formatting a memory card or internal memory in the camera creates a folder in which pictures are stored. Do not rename or delete this folder or use a computer or other device to edit, delete, or rename image files. Always use the camera to delete pictures from memory cards and internal memory; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals.

Shooting Mode

Press the **ON/OFF** button to turn the camera on. The lens will extend and the lens cover will open.



Press **ON/OFF** again to turn the camera off.

Tip: Switching to Playback Mode

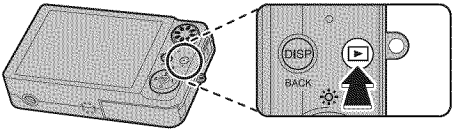
Press the ▶ button to start playback. Press the shutter button halfway to return to shooting mode.

Cautions

- Pictures can be affected by fingerprints and other marks on the lens. Keep the lens clean.
- The **ON/OFF** button does not completely disconnect the camera from its power supply.

Playback Mode

To turn the camera on and begin playback, press the ▶ button for about a second.



Press the ▶ button again to turn the camera off.

Tip: Switching to Shooting Mode

To exit to shooting mode, press the shutter button halfway. Press the ▶ button to return to playback.

Tip: Auto Power Off

The monitor will dim to save power if no operations are performed for a while in shooting mode. Full brightness can be restored by operating any of the camera controls. The camera will turn off automatically if no operations are performed for the length of time selected in the **AUTO POWER OFF** menu (see page 78). To turn the camera on, press the **ON/OFF** button or press the ▶ button for about a second.

A language-selection dialog is displayed the first time the camera is turned on. Set up the camera as described below (for information on resetting the clock or changing languages, see page 74).

1 Choose a language.



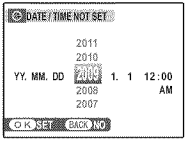
1.1 Press the selector up, down, left, or right to highlight a language.



1.2 Press **MENU/OK**.



2 Set the date and time.



2.1 Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. To change the order in which the year, month, and day are displayed, highlight the date format and press the selector up or down.



2.2 Press **MENU/OK**.



Tip: The Camera Clock

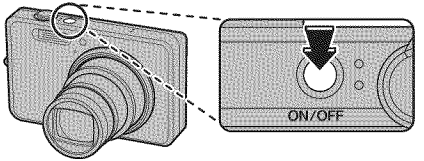
If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on. If the battery is left in the camera for about two hours, the battery can be removed for about 24 hours without resetting the clock or language selection.

Taking Pictures in 📷 (Auto) Mode

This section describes how to take pictures in 📷 (auto) mode.

1 Turn the camera on.

Press the **ON/OFF** button to turn the camera on.

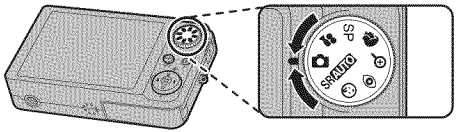


Tip: Intelligent Face Detection

The first time the camera is turned on, Intelligent Face Detection is automatically activated and the camera is optimized for taking portrait photographs. For more information on using Intelligent Face Detection, see page 20.

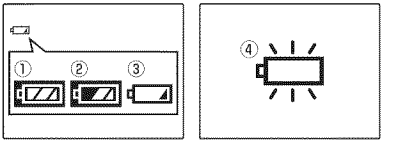
2 Select 📷 mode.

Rotate the mode dial to 📷.



3 Check the battery level.

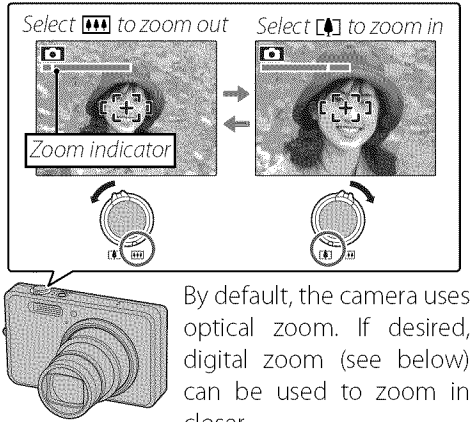
Check the battery level in the monitor.



Indicator	Description
① (white)	Battery partially discharged.
② (white)	Battery more than half discharged.
③ (red)	Low battery. Charge as soon as possible.
④ (blinks red)	Battery exhausted. Turn camera off and charge battery.

4 Frame the picture.

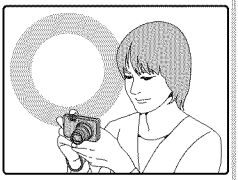
Position the main subject in the focus area and use the zoom control to frame the picture in the monitor.



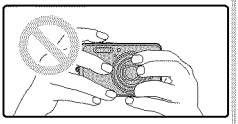
By default, the camera uses optical zoom. If desired, digital zoom (see below) can be used to zoom in closer.

Holding the Camera

Hold the camera steady with both hands and brace your elbows against your sides. Shaking or unsteady hands can blur your shots.



To prevent pictures that are out of focus or too dark (underexposed), keep your fingers and other objects away from the lens and flash.



Tip: Focus Lock

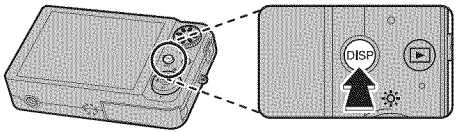
Use focus lock (pg. 23) to focus on subjects that are not in the focus frame.

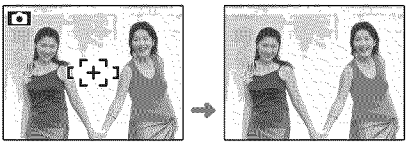
Tip: Digital Zoom

Digital zoom can be activated by rotating the mode dial to (pg. 31) or using the **DIGITAL ZOOM** option in the setup menu (pg. 77).

Framing Guideline

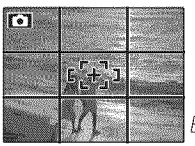
To display a framing grid or to view or hide other indicators in the monitor, press the **DISP/BACK** button.





Indicators displayed

Indicators hidden

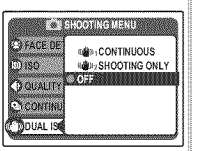


Best Framing

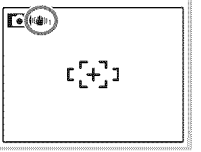
To use the best framing, position the main subject at the intersection of two lines or align one of the horizontal lines with the horizon. Use focus lock (pg. 23) to focus on subjects that will not be in the center of the frame in the final photograph.

DUAL IS MODE (FinePix J250 only)

Choose **DUAL IS MODE** (pg. 58) in the shooting menu, and choose **CONTINUOUS** or **SHOOTING ONLY** option. If the subject is poorly lit, blurring caused by camera shake can be reduced.

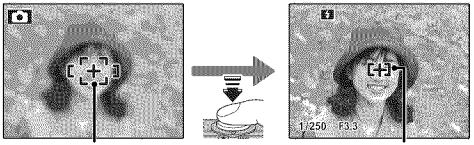


Sensitivity is raised when DUAL IS is in effect. Note that blurring may still occur depending on the scene or shooting condition.



5 Focus.

Press the shutter button halfway to focus on the main subject in the focus frame.



Focus frame *Press halfway* *Camera selects small focus frame and focuses on subject*

If the camera is able to focus, it will beep twice and the indicator lamp will glow green.

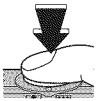
If the camera is unable to focus, the focus frame will turn red, a **!AF** indicator will appear in the monitor, and the indicator lamp will blink green. Change the composition or use focus lock (pg. 23).

Note

The lens may make a noise when the camera focuses. This is normal.

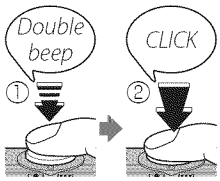
6 Shoot.

Smoothly press the shutter button the rest of the way down to take the picture.



Tip: The Shutter Button

The shutter button has two positions. Pressing the shutter button halfway (①) sets focus and exposure; to shoot, press the shutter button the rest of the way down (②).

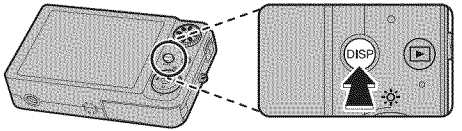


Note

If the subject is poorly lit, the flash may fire when the picture is taken. To take pictures without the flash, choose another flash mode (pg. 26).

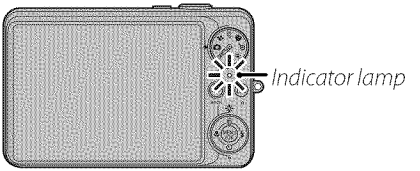
Silent Mode

In situations in which camera sounds or lights may be unwelcome, hold the **DISP/BACK** button down until is displayed (note that silent mode is not available during movie playback).



The camera speaker, flash, and AF-assist illuminator/selftimer lamp turn off; flash and volume settings can not be adjusted. To restore normal operation, press the **DISP/BACK** button until the icon is no longer displayed.

The Indicator Lamp



The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Camera unable to focus or picture may be blurred. Picture can be taken.
Blinks green and orange	Recording pictures. Additional pictures can be taken.
Glows orange	Recording pictures. No additional pictures can be taken at this time.
Blinks orange	Flash charging; flash will not fire when picture is taken.
Blinks red	Lens or memory error (internal memory or memory card full or not formatted, format error, or other memory error).

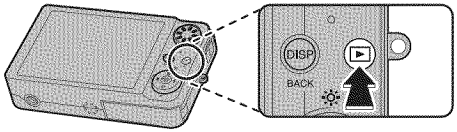
Tip: Warnings

Detailed warnings appear in the monitor. See pages 89–92 for more information.

Viewing Pictures

Pictures can be viewed in the monitor. When taking important photographs, take a test shot and check the results.

1 Press the ▶ button for about a second.



The most recent picture will be displayed in the monitor.



2 View additional pictures.

Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.

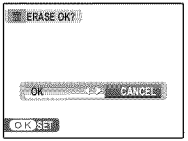


Press the shutter button to exit to shooting mode.

Deleting Pictures

To delete the picture currently displayed in the monitor, press the selector up (🗑). The following dialog will be displayed.





To delete the picture, press the selector left to highlight **OK** and press **MENU/OK**. To exit without deleting the picture, highlight **CANCEL** and press **MENU/OK**.



Tip: The Playback Menu

Pictures can also be deleted from the playback menu (pg. 38).

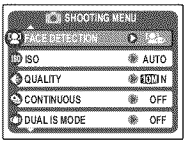
Intelligent Face Detection and Red-Eye Removal

Intelligent Face Detection allows the camera to automatically detect human faces and set focus and exposure for a face anywhere in the frame for shots that emphasize portrait subjects. Intelligent Face Detection also offers a red-eye removal option for removing "red-eye" effects caused by the flash.

1 Turn Intelligent Face Detection on.

1.1 Press **MENU/OK** to display the shooting menu.





1.2 Press the selector up or down to highlight **FACE DETECTION**.



1.3 Press the selector right to display Intelligent Face Detection options.



1.4 Press the selector up or down to highlight the desired option.



Option	Description
ON **ON**	Intelligent Face Detection and red-eye removal on. Use with the flash.
ON **OFF**	Intelligent Face Detection on; red-eye removal off.
OFF	Intelligent Face Detection and red-eye removal off.

1.5 Press **MENU/OK** to select the highlighted option and return to shooting mode.



icon appears in monitor when Intelligent Face Detection is on.



2 Frame the picture.

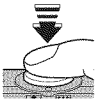
If a face is detected, it will be indicated by a green border. If there is more than one face in the frame, the camera will select the face closest to the center; other faces are indicated by white borders.



Green border

3 Focus.

Press the shutter button halfway to set focus and exposure for the subject in the green border.

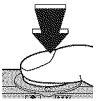


Cautions

- If no face is detected when the shutter button is pressed halfway (pg. 85), the camera will focus on the subject at the center of the monitor and red-eye will not be removed.
- In each mode, exposure will be optimized for the entire scene rather than the selected portrait subject.

4 Shoot.

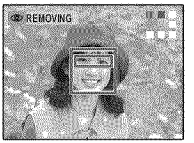
Press the shutter button all the way down to shoot.



Caution

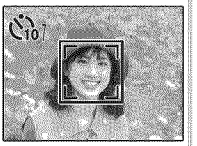
If the subject moves as the shutter button is pressed, their face may not be in the area indicated by the green border when the picture is taken.

If **ON** **ON** is selected, the picture will be processed to reduce red-eye before it is recorded (the **RED-EYE REMOVAL** option in the playback menu can also be used to reduce red-eye; pg. 66).



Intelligent Face Detection

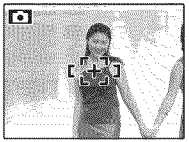
The camera can zoom in on pictures taken with Intelligent Face Detection during slide shows (pg. 67) and when pictures are displayed automatically after shooting (pg. 75).



Focus Lock

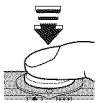
To compose photographs with off-center subjects:

1 Position the subject in the focus frame.

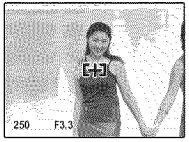


2 Focus.

Press the shutter button halfway to set focus and exposure. Focus and exposure will remain locked while the shutter button is pressed halfway (AF/AE lock).



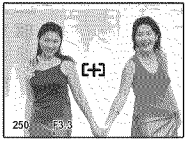
Press halfway



Repeat steps 1 and 2 as desired to refocus before taking the picture.

3 Recompose the picture.

Keeping the shutter button pressed halfway, recompose the picture.



4 Shoot.

Press the shutter-release button the rest of the way down to take the picture.

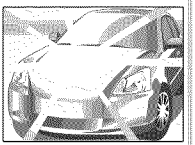


Press the rest of the way down

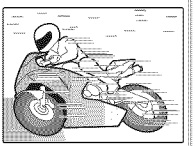
Autofocus

Although the camera boasts a high-precision autofocus system, it may be unable to focus on the subjects listed below. If the camera is unable to focus using autofocus, use focus lock (pg. 23) to focus on another subject at the same distance and then recompose the photograph.

- Very shiny subjects such as mirrors or car bodies.



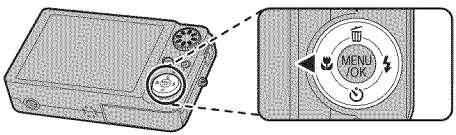
- Fast-moving subjects.

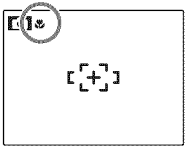


- Subjects photographed through a window or other reflective object.
- Dark subjects and subjects that absorb rather than reflect light, such as hair or fur.
- Insubstantial subjects, such as smoke or flame.
- Subjects that show little contrast with the background (for example, subjects in clothing that is the same color as the background).
- Subjects positioned in front of or behind a high-contrast object that is also in the focus frame (for example, a subject photographed against a backdrop of highly contrasting elements).

Macro Mode (Close-ups)

For close-ups, press the selector left (🌷).





🌷 *icon appears in monitor when camera is in macro mode*

When macro mode is in effect, the camera focuses on subjects near the center of the monitor. Use the zoom control to frame pictures.

To exit macro mode, press the selector left (🌷).

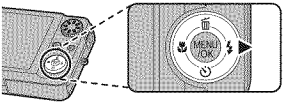
Note

Use of a tripod is recommended to prevent blur caused by camera shake.

ϟ Using the Flash

Use the flash when lighting is poor, for example when shooting at night or indoors under low light.

To choose a flash mode, press the selector right (ϟ). The flash mode changes each time the selector is pressed; in modes other than AUTO, the current mode is indicated by an icon in the monitor.



Mode	Description
AUTO (no icon)	The flash fires when required. Recommended in most situations.
ϟ (forced flash)	The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light.
⊗ (suppressed flash)	The flash does not fire even when the subject is poorly lit. !📷 will appear in the monitor at slow shutter speeds to warn that pictures may be blurred. Use of a tripod is recommended.
S ϟ (slow synchro)	Capture both the main subject and the background when shooting at night (note that brightly lit scenes may be overexposed).

If the flash will fire, ϟ will be displayed in the monitor when the shutter button is pressed halfway.

Caution

The flash may fire several times with each shot. Do not move the camera until shooting is complete.

Red-Eye Removal

When **ON** **ON** is selected for Intelligent Face Detection (pg. 20), red-eye removal () is available in AUTO (), forced flash (), and slow synchro () modes. Red-eye removal minimizes "*red-eye*" caused when light from the flash is reflected from the subject's retinas as shown in the illustration at right.

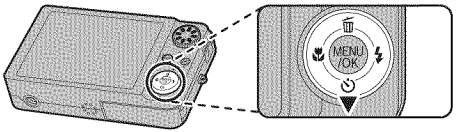


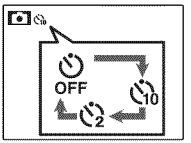
Using the Self-Timer

The camera offers a ten-second timer that allows photographers to appear in their own photographs, and a two-second timer that can be used to avoid blur caused by the camera moving when the shutter button is pressed. The self-timer is available in all shooting modes.

1 Set the timer.

The current self-timer mode is displayed in the monitor. To choose a different setting, press the selector down (Ⓢ). The selection changes each time the selector is pressed.

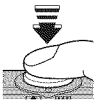




Choose from OFF (self-timer off), 10 (10 s delay), or 2 (2 s delay)

2 Focus.

Press the shutter button halfway to focus.

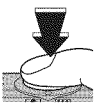


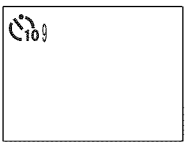
Caution

Stand behind the camera when using the shutter button. Standing in front of the lens can interfere with focus and exposure.

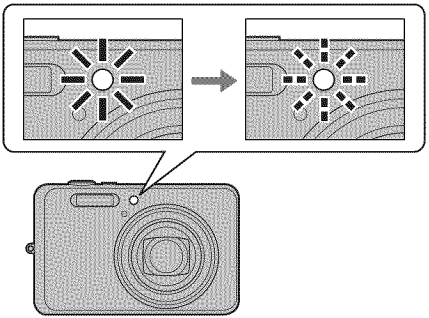
3 Start the timer.

Press the shutter button the rest of the way down to start the timer. The display in the monitor shows the number of seconds remaining until the shutter is released. To stop the timer before the picture is taken, press **DISP/BACK**.





The self-timer lamp on the front of the camera will blink immediately before the picture is taken. If the two-second timer is selected, the self-timer lamp will blink as the timer counts down.



Intelligent Face Detection

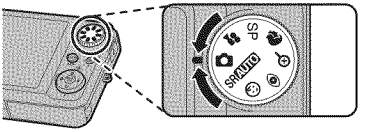
Because it ensures that the faces of portrait subjects will be in focus, Intelligent Face Detection (pg. 20) is recommended when using the self-timer for group portraits or self-portraits. To use the self-timer with Intelligent Face Detection, set the timer as described in Step 1 and then press the shutter button all the way down to start the timer. The camera will detect faces while the timer is counting down and adjust focus and exposure immediately before the shutter is released. Be careful not to move until the picture has been recorded.

Note

The self-timer turns off automatically when the picture is taken, a different shooting mode is selected, playback mode is selected, or the camera is turned off.

Shooting Mode

Choose a shooting mode according to the scene or type of subject. To choose a shooting mode, rotate the mode dial to the desired setting. The following modes are available:



AUTO

Choose for crisp, clear snapshots (pg. 14). This mode is recommended in most situations.

SR AUTO SCENE RECOGNITION

In this mode, the camera automatically analyzes the composition and selects the appropriate scene mode according to the subject and shooting conditions. The selected mode is displayed when the shutter button is pressed halfway.

Mode	Type of subject or scene detected
	Portrait: Human portrait subject.
	Landscape: Man-made or natural landscape.
	Night: Poorly lit landscape.
	Macro: Subject close to camera. Camera focuses in (macro) range.
	Night portrait: Poorly lit portrait subject.
	Back-lit portrait: Back-lit portrait subject.

Notes: SR AUTO

- (**AUTO**) will be selected if the subject does not match the scenes listed above.
- The camera focuses continuously on the faces of portrait subjects or on subjects near the center of the frame. This increases the drain on the battery, and the sound of the camera focusing may be audible.

BABY MODE

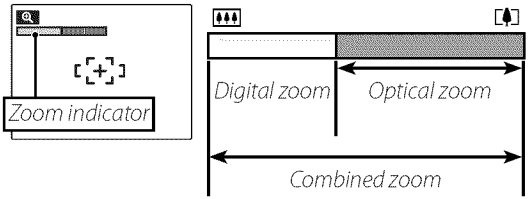
Choose for natural skin tones when taking portraits of infants. The flash turns off automatically.

RED-EYE REDUCTION

Reduce red-eye in portraits taken with the flash under low light (pg. 27).

DIGITAL ZOOM

Choose for more powerful zoom when framing small or distant objects. Digital zoom is fixed whereas optical zoom can be adjusted using the zoom control to zoom in, setting a combined zoom.



Caution

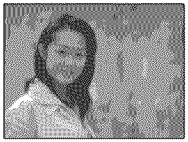
Digital zoom produces lower quality images than optical zoom.

Tip: DIGITAL ZOOM

The **DIGITAL ZOOM** option in the setup menu can be used to enable digital zoom in other shooting modes. This option also allows digital zoom to be adjusted using the zoom control.

PORTRAIT

Choose this mode for soft-toned portraits with natural skin tones.



SP *SCENE POSITION*

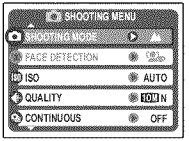
The camera offers a choice of "scenes," each adapted to particular shooting conditions or a specific type of subject, which can be assigned to the SP position on the mode dial:

1 Rotate the mode dial to **SP**.



2 Press **MENU/OK** to display the shooting menu.



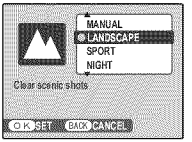


3 Press the selector up or down to highlight **SHOOTING MODE**.



4 Press the selector right to display a list of scenes.





5 Press the selector up or down to highlight a scene (pp. 33–34).



6 Press **MENU/OK** to select the highlighted option.



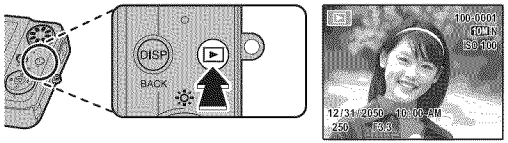
Until the setting is changed as described above, the chosen scene will be selected whenever the mode dial is rotated to **SP**.

Scene	Description
MANUAL	Choose this mode for complete control of shooting settings.
PICTURE STABILIZATION (FinePix J210 only)	It reduces blurring caused by camera shake. Faster shutter speeds reduce blur caused by subject movement also. Choose this mode when shooting fast moving subjects like children or animals.
LANDSCAPE	Choose this mode for crisp, clear daylight shots of buildings and landscapes. The flash turns off automatically.
SPORT	Choose this mode when photographing moving subjects. Priority is given to faster shutter speeds.
NIGHT	Choose this mode for poorly lit twilight or night scenes. Sensitivity is automatically raised to reduce blur caused by camera shake.
NIGHT (TRIPOD)	Choose this mode for slow shutter speeds when shooting at night. Use a tripod to prevent blur.
NATURAL LIGHT	Capture natural light indoors, under low light, or where the flash can not be used. The flash turns off and sensitivity is raised to reduce blur.
BEACH	Choose for crisp, clear shots that capture the brightness of sunlit beaches.
SNOW	Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.
FIREWORKS	Slow shutter speeds are used to capture the expanding burst of light from a firework. Press the selector left or right to choose from shutter speeds. Use of a tripod is recommended to prevent blur.
SUNSET	Choose this mode to record the vivid colors in sunrises and sunsets.
FLOWER	Choose for vivid close-ups of flowers. The camera focuses in the macro range and the flash turns off automatically.

Scene	Description
PARTY	Capture indoor background lighting under low-light conditions.
MUSEUM	Choose where flash photography is prohibited or the sound of the shutter may be unwelcome. The flash, speaker, and self-timer lamp turn off automatically.
TEXT	Take clear pictures of text or drawings in print. The camera focuses in the macro range.

Playback Options

To view the most recent picture in the monitor, press the ▶ button for about a second.

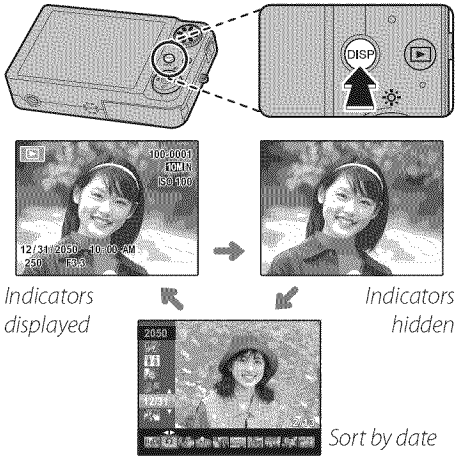


Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



Choosing a Display Format

Press the **DISP/BACK** button to cycle through playback display formats as shown below.

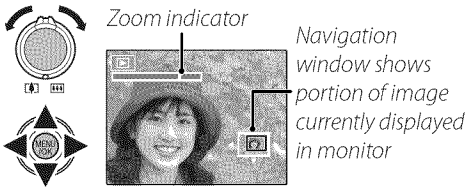


Note

Pictures taken using other cameras are indicated by a 🎁 ("gift image") icon during playback.

Playback Zoom

Select [🔍] to zoom in the picture currently displayed full frame in the monitor; select [▦] to zoom out. When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display.



Press **DISP/BACK** to exit zoom.

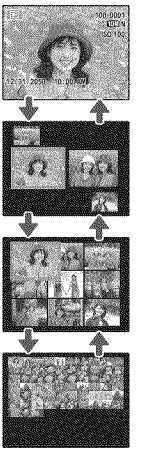
Note

The maximum zoom ratio varies with image size. Playback zoom is not available with pictures taken at an image size of [3M].

Multi-Frame Playback

To change the number of images displayed, select [▦] when a picture is shown full-frame in the monitor.





Select [▦] to increase the number of pictures displayed.

Select [🔍] to reduce the number of images displayed.

Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the two-, nine-, and hundred-frame displays, press the selector up or down to view more pictures.

Sort by Date

Choose sort-by-date mode to view pictures taken on a selected date.

1 Press **DISP/BACK** until the sort-by-date screen is displayed.





2 Use the selector up or down to highlight a date. Keep the selector pressed to scroll rapidly to the desired date.





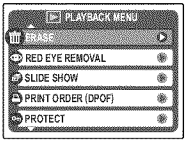
3 Press the selector left or right to scroll through the pictures taken on the highlighted date. Keep the selector pressed to scroll rapidly to the desired frame.



Deleting Pictures

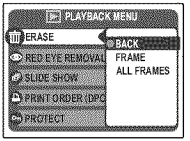
The **ERASE** option in the playback menu can be used to delete still pictures and movies, increasing the amount of space available on the memory card or in internal memory (for information on deleting pictures in single-frame playback, see page 19). *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*

1 Press **MENU/OK** to display the playback menu.



2 Press the selector up or down to highlight **ERASE**.

3 Press the selector right to display delete options.



4 Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.

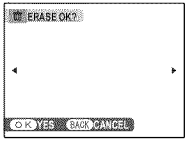
5 Press **MENU/OK** to display options for the selected item (see pg. 39).

Tips: Deleting Pictures

- When a memory card is inserted, pictures will be deleted from the memory card; otherwise, pictures will be deleted from internal memory.
- Protected pictures can not be deleted. Remove protection from any pictures you wish to delete (pg. 68).
- If a message appears stating that the selected images are part of a DPOF print order, press **MENU/OK** to delete the pictures.

■ FRAME: *Deleting Selected Images*

Selecting **FRAME** displays the dialog shown at right.



Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (the picture is deleted immediately; be careful not delete the wrong picture).





Press **DISP/BACK** to exit when all the desired pictures have been deleted.

■ ALL FRAMES: *Deleting All Images*

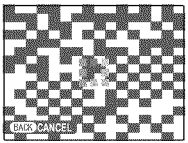
Selecting **ALL FRAMES** displays the confirmation shown at right.



Press **MENU/OK** to delete all unprotected pictures.



The dialog shown at right is displayed during deletion. Press **DISP/BACK** to cancel before all pictures have been deleted (any pictures deleted before the button was pressed can not be recovered).

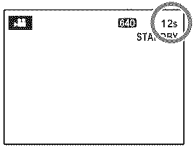


Recording Movies

Shoot short movies at 30 frames per second. Sound is recorded via the built in microphone; do not cover the microphone during the recording.

1 Rotate the mode dial to (movie mode).

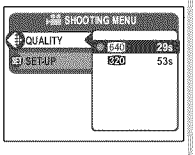




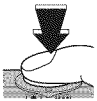
Time available is displayed in monitor

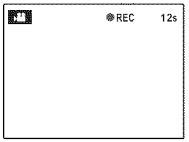
Choosing the Frame Size

To choose the frame size, press **MENU/OK** and select **QUALITY**. Choose **640** (640×480 pixels) for better quality, **320** (320×240 pixels) for longer movies. Press **MENU/OK** to return to movie recording mode.



2 Press the shutter button all the way down to start recording.





REC *and time remaining are displayed in monitor*

3 During the recording, zoom can be adjusted using the zoom control. Note that sounds made by the camera may be recorded.



Note

Exposure and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.

4 Press the shutter button halfway to end recording. Recording ends automatically when the movie reaches maximum length or memory is full.



Tip

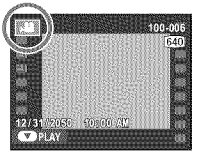
There is no need to keep the shutter button pressed during recording.

Note

Movies are recorded as monaural motion JPEG files.

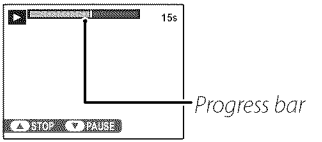
Viewing Movies

During playback (pg. 35), movies are displayed in the monitor as shown at right. The following operations can be performed while a movie is displayed:



Operation	Description
Start/pause playback	**Press the selector down** to start playback. Press again to pause.
End playback/ delete	**Press the selector up** to end playback. If playback is paused, pressing the selector up will delete the current movie.
Advance/ rewind	**Press the selector right** to advance, **left** to rewind. If playback is paused, the movie will advance or rewind one frame each time the selector is pressed.
Adjust volume	**Press MENU/OK** to pause playback and display volume controls. Press the selector up or down to adjust the volume; press **MENU/OK** again to set the volume.

Progress is shown in the monitor during playback.



Tip: Viewing Movies on a Computer

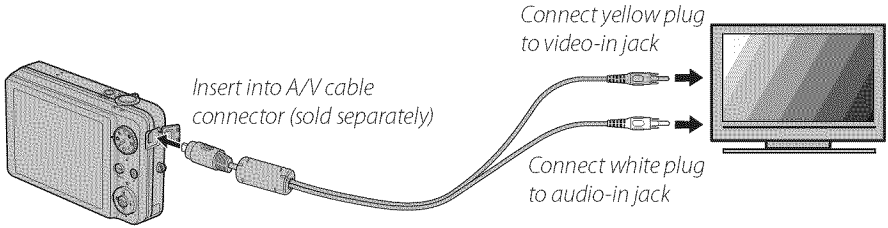
Copy movies to the computer before viewing.

Cautions

- Do not cover the speaker during playback.
- White vertical or dark horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.

Viewing Pictures on TV

Connect the camera to a TV and tune the television to the video channel to show pictures to a group. The A/V cable connects as shown below.



Press ▶ for about a second to turn the camera on. The camera monitor turns off and pictures and movies are played back on the TV. Note that the camera volume controls have no effect on sounds played on the TV; use the television volume controls to adjust the volume.

Note

Image quality drops during movie playback.

Caution

When connecting the A/V cable (sold separately), be sure the connectors are fully inserted.

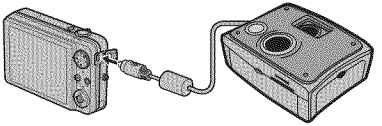
Printing Pictures via USB

If the printer supports PictBridge, the camera can be connected directly to the printer and pictures can be printed without first being copied to a computer. Note that depending on the printer, not all the functions described below may be supported.

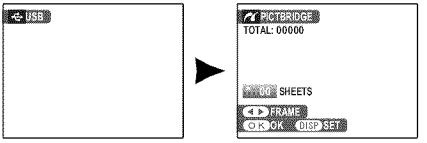
PictBridge

Connecting the Camera

1 Connect the supplied USB cable as shown and turn the printer on.



2 Press the ▶ button for about a second to turn the camera on. **USB** will be displayed in the monitor, followed by the PictBridge display shown below at right.



Printing Selected Pictures

1 Press the selector left or right to display a picture you wish to print.

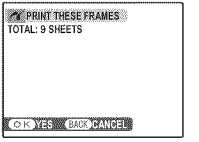


2 Press the selector up or down to choose the number of copies (up to 99).



3 Repeat steps 1–2 to select additional pictures. Press **MENU/OK** to display a confirmation dialog when settings are complete.





4 Press **MENU/OK** to start printing.



Tip: Printing the Date of Recording

To print the date of recording on pictures, press **DISP/BACK** in steps 1–2 to display the PictBridge menu (see "Printing the DPOF Print Order," below). Press the selector up or down to highlight **PRINT WITH DATE** and press **MENU/OK** to return to the PictBridge display (to print pictures without the date of recording, select **PRINT WITHOUT DATE**). The date will not be printed if the camera clock was not set when the picture was taken.

Note

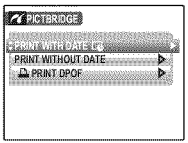
If no pictures are selected when the **MENU/OK** button is pressed, the camera will print one copy of the current picture.

Printing the DPOF Print Order

To print the print order created with **PRINT ORDER (DPOF)** in the playback menu (pg. 64):

1 In the PictBridge display, press **DISP/BACK** to open the PictBridge menu.



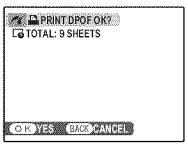


2 Press the selector up or down to highlight **PRINT DPOF**.



3 Press **MENU/OK** to display a confirmation dialog.



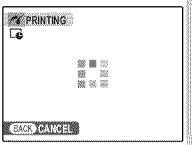


4 Press **MENU/OK** to start printing.



During Printing

The message shown at right is displayed during printing. Press **DISP/BACK** to cancel before all pictures are printed (depending on the printer, printing may end before the current picture has printed).



If printing is interrupted, press ▶ to turn the camera off and then on again.

Disconnecting the Camera

Confirm that "PRINTING" is not displayed in the monitor and press ▶ to turn the camera off. Disconnect the USB cable.

Notes

- Print pictures from internal memory or a memory card that has been formatted in the camera.
- If the printer does not support date printing, the **PRINT WITH DATE** option will not be available in the PictBridge menu and the date will not be printed on the pictures in the DPOF print order.
- Default printer page size and print quality settings are used when printing via direct USB connection.

Creating a DPOF Print Order

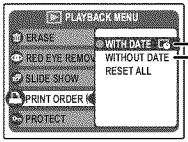
The **PRINT ORDER (DPOF)** option in the playback menu can be used to create a digital "print order" for PictBridge-compatible printers (pg. 44) or devices that support DPOF.

DPOF

DPOF (Digital Print Order Format) is standard that allows pictures to be printed from "print orders" stored in internal memory or on a memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.

■ WITH DATE / WITHOUT DATE

To modify the DPOF print order, select **PRINT ORDER (DPOF)** in the playback menu and press the selector up or down to highlight **WITH DATE** or **WITHOUT DATE**.



WITH DATE: *Print date of recording on pictures.*

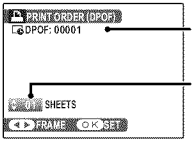
WITHOUT DATE: *Print pictures without date.*

Press **MENU/OK** and follow the steps below.

1 Press the selector left or right to display a picture you wish to include in or remove from the print order.



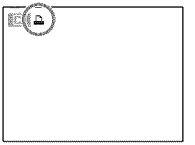
2 Press the selector up or down to choose the number of copies (up to 99). To remove a picture from the order, press the selector down until the number of copies is 0.



3 Repeat steps 1–2 to complete the print order. Press **MENU/OK** to save the print order when settings are complete, or **DISP/BACK** to exit without changing the print order.

4 The total number of prints is displayed in the monitor. Press **MENU/OK** to exit.

The pictures in the current print order are indicated by a icon during playback.



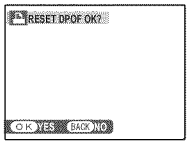
■ RESET ALL

To cancel the current print order, select **RESET ALL** in the **PRINT ORDER (DPOF)** menu. The confirmation shown at right will be displayed; press **MENU/OK** to remove all pictures from the order.



☛ Notes

- Remove the memory card to create or modify a print order for the pictures in internal memory.
- Print orders can contain a maximum of 999 pictures.
- If a memory card is inserted containing a print order created by another camera, the message shown at right will be displayed. Pressing **MENU/OK** cancels the print order; a new print order must be created as described above.



Viewing Pictures on a Computer

The supplied FinePixViewer software can be used to copy pictures to a computer, where they can be stored, viewed, organized, and printed. Before proceeding, install FinePixViewer as described below. *Do* NOT *connect the camera to the computer until installation is complete.*

Installing FinePixViewer

FinePixViewer is available in a Windows version (FinePixViewer S) and a Macintosh version (FinePixViewer). Installation instructions for Windows are on pages 50–52, those for the Macintosh on pages 53–54.

Installing FinePixViewer S: Windows

1 Confirm that the computer meets the following system requirements:

OS	Preinstalled versions of Windows Vista, Windows XP Home Edition (Service Pack 2), Windows XP Professional (Service Pack 2), or Windows 2000 Professional (Service Pack 4)
CPU	• **Windows Vista**: 800 MHz Pentium 4 or better (3 GHz Pentium 4 or better recommended) • **Windows XP**: 800 MHz Pentium 4 or better (2 GHz Pentium 4 or better recommended) • **Windows 2000**: 200 MHz Pentium or better
RAM	• **Windows Vista**: 512 MB or more (1 GB or more recommended) • **Windows XP**: 512 MB or more • **Windows 2000**: 128 MB or more
Free disk space	A minimum of 450 MB required for installation with 600 MB available when FinePixViewer is running (15 GB or more recommended under Windows Vista, 2 GB or more recommended under Windows XP)
Video	800 × 600 pixels or more with 16-bit color or better (1,024 × 768 pixels or more with 32-bit color recommended)
Other	• Built-in USB port recommended. Operation is not guaranteed other USB ports. • Internet connection (56 kbps or faster recommended) required to use FinePix Internet Service; Internet connection and e-mail software required to use e-mail option.

Caution

Other versions of Windows are not supported. Operation is not guaranteed on home-built computers or computers that have been upgraded from earlier versions of Windows.

2 Start the computer. Log in to an account with administrator privileges before proceeding.

3 Exit any applications that may be running and insert the installer CD in a CD-ROM drive.

Windows Vista

If an AutoPlay dialog is displayed, click **SETUP.exe**. A "User Account Control" dialog will then be displayed; click **Allow**.

The installer will start automatically; click **Installing FinePixViewer** and follow the on-screen instructions to install FinePixViewer S. Note that the Windows CD may be required during installation.

If the Installer Does Not Start Automatically

If the installer does not start automatically, select **Computer** or **My Computer** from the Start menu (Windows Vista/XP) or double-click the **My Computer** icon on the desktop (Windows 2000), then double-click the **FINEPIX** CD icon to open the FINEPIX CD window and double-click **SETUP** or **SETUP.exe**.

4 If prompted to install Windows Media Player or DirectX, follow the on-screen instructions to complete installation.

5 When prompted, remove the installer CD from the CD-ROM drive and click **Restart** to restart the computer. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software. The version number is printed at the top of the CD label for reference when updating the software or contacting customer support.

Installation is now complete. Proceed to "Connecting the Camera" on page 55.

Installing FinePixViewer: Macintosh

1 Confirm that the computer meets the following system requirements:

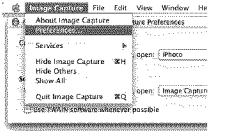
CPU	PowerPC or Intel
OS	Pre-installed versions of Mac OS X version 10.3.9–10.5 (for the latest information, visit *http://www.fujifilm.com/*)
RAM	256 MB or more
Free disk space	A minimum of 200 MB required for installation with 400 MB available when FinePixViewer is running
Video	800 × 600 pixels or more with thousands of colors or better
Other	• Built-in USB port recommended. Operation is not guaranteed other USB ports. • Internet connection (56 kbps or faster recommended) required to use FinePix Internet Service; Internet connection and e-mail software required to use e-mail option.

2 After starting the computer and quitting any applications that may be running, insert the installer CD in a CD-ROM drive. Double-click the **FinePix CD** icon on the desktop and double-click **Installer for Mac OS X**.

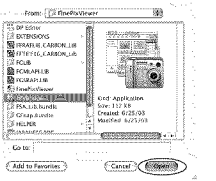
3 An installer dialog will be displayed; click **Installing FinePixViewer** to start installation. Enter an administrator name and password when prompted and click **OK**, then follow the on-screen instructions to install FinePixViewer. Click **Exit** to quit the installer when installation is complete.

4 Remove the installer CD from the CD-ROM drive. Note that you may be unable to remove the CD if Safari is running; if necessary, quit Safari before removing the CD. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software. The version number is printed at the top of the CD label for reference when updating the software or contacting customer support.

5 Select **Applications** in the Finder **Go** menu to open the applications folder. Double-click the **Image Capture** icon and select **Preferences...** from the Image Capture application menu.



The Image Capture preferences dialog will be displayed. Choose **Other...** in the **When a camera is connected, open** menu, then select **FPVBridge** in the "Applications/FinePixViewer" folder and click **Open**.



Select **Quit Image Capture** from the Image Capture application menu.

Installation is now complete. Proceed to "Connecting the Camera" on page 55.

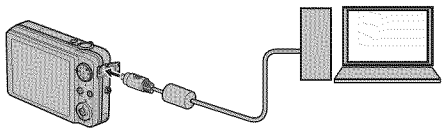
Connecting the Camera

1 If the pictures you wish to copy are stored on a memory card, insert the card into the camera (pg. 9). If no card is inserted, pictures will be copied from internal memory.

Caution

Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Fully charge the battery before connecting the camera.

2 Turn the camera off and connect the supplied USB cable as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.



3 Press the ▶ button for about a second to turn the camera on. FinePixViewer will start automatically and the "Save Image Wizard" will be displayed. Follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **Cancel**.

Caution

If FinePixViewer does not start automatically, the software may not be correctly installed. Disconnect the camera and reinstall the software.

For more information on using FinePixViewer, select **How to Use FinePixViewer** in the FinePixViewer **Help** menu.

Note

The camera will not turn off automatically while connected to a computer.

Cautions

- Use only memory cards that have been formatted in the camera and contain pictures taken with the camera. If a memory card containing a large number of images is inserted, there may be a delay before FinePixViewer starts and FinePixViewer may be unable to import or save images. Use a memory card reader to transfer pictures.
- Make sure the indicator lamp is out before turning the camera off, disconnecting the USB cable. Failure to observe this precaution could result in loss of data or damage to internal memory or the memory card.
- Disconnect the camera before inserting or removing memory cards.
- In some cases, it may not be possible to access pictures saved to a network server using FinePixViewer in the same way as on a standalone computer.
- The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

Disconnecting the Camera

After confirming that the indicator lamp is out, follow the on-screen instructions to turn the camera off and disconnect the USB cable.

Updating FinePixViewer

The latest version of FinePixViewer can be downloaded from *http://www.fujifilm.com/*.

Uninstalling FinePixViewer

Only uninstall FinePixViewer before reinstalling the software or when it is no longer required. After quitting FinePixViewer and disconnecting the camera, drag the "FinePixViewer" folder from "Applications" into the Trash and select **Empty Trash** in the **Finder** menu (Macintosh), or open the control panel and use "Programs and Features" (Windows Vista) or "Add or remove Programs" (other versions of Windows) to uninstall FinePixViewer. Under Windows, one or more confirmation dialogs may be displayed; read the contents carefully before clicking **OK**.

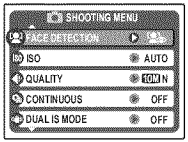
The Shooting Menu

The shooting menu is used to adjust settings for a wide range of shooting conditions.

Using the Shooting Menu

1 Press **MENU/OK** to display the shooting menu.





Note

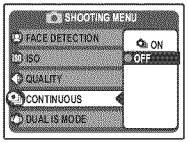
The options displayed in the shooting menu vary depending on the shooting mode.

2 Press the selector up or down to highlight the desired menu item.



3 Press the selector right to display options for the highlighted item.





4 Press the selector up or down to highlight the desired option.



5 Press **MENU/OK** to select the highlighted option.



Shooting Menu Options

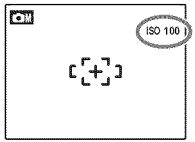
Menu item	Description	Options	Default
SHOOTING MODE	Choose a scene for SP mode (pg. 32).	▲/🏃/🌙/🌙/N/🏔/❄/☀/🌅/🎆/✳/🍸/OFF/TEXT/M/🎥 (FinePix J210 only)	▲
FACE DETECTION	Turn Intelligent Face Detection and red-eye removal on or off (pg. 20).	ON 👁 ON/ ON 👁 OFF / OFF	ON 👁 ON
ISO	Adjust ISO sensitivity (pg. 59). Choose higher values when the subject is poorly lit.	AUTO/ 3200 3M / 1600 / 800 / 400 / 200 / 100 / 64	AUTO
QUALITY	Choose image size and quality (pg. 60).	10M F/ 10M N/ 9M 3:2/ 5M / 3M / 2M / 03M	10M N
EXP. COMPENSATION	Adjust exposure for bright, dark, or high-contrast scenes (pg. 61).	–2 EV to +2 EV in increments of ⅓ EV	±0
PHOTOMETRY	Choose how exposure is metered in M mode (pg. 62).	◎/[•]/[]	◎
WHITE BALANCE	Adjust color for different light sources (pg. 62).	AUTO/☀/☁/💡1/💡2/💡3/🔆	AUTO
CONTINUOUS	Shoot a series of pictures (pg. 63).	🎞/OFF	OFF
DUAL IS MODE (FinePix J250 only)	Choose whether image stabilization is performed at all times when the camera is in shooting mode (📳1 CONTINUOUS), or only when the shutter button is pressed halfway (📳2 SHOOTING ONLY).	📳1/📳2/OFF	📳1

Menu item	Description	Options	Default
SET-UP	Perform basic camera setup such as choosing a language and setting the time and date (pg. 73).	/1/2/3	—

ISO

Control the camera's sensitivity to light. Higher values can be used to reduce blur when lighting is poor; note, however, that mottling may appear in pictures taken at high sensitivities. If **AUTO** is selected, the camera will adjust sensitivity automatically in response to shooting conditions.

In shooting modes other than M, sensitivity is set to **AUTO**; other values can not be selected. Settings other than **AUTO** are shown by an icon in the monitor.



QUALITY

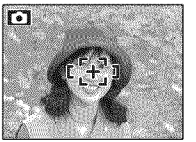
Choose the size and quality at which still pictures are recorded. Large pictures can be printed at large sizes with no drop in quality; small pictures require less memory, allowing more pictures to be recorded.

Option	Prints at sizes up to
10M F	31×23 cm/12×9 in. (10M) or 31×21 cm/
10M N	12×8 in. (9M 3:2). Choose 10M F for high-qual-
9M 3:2	ity prints, 9M 3:2 for an aspect ratio of 3:2.
5M	22×16 cm (8.5×6.5 in.).
3M	17×13 cm (7×5 in.).
2M	14×10 cm (5.3×4 in.).
03M	5×4 cm (2×1.5 in.). Suited to e-mail or the web.

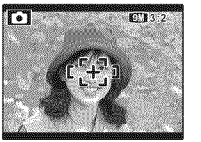
The number of pictures that can be taken at current settings (pg. 94) is displayed to the right of the image quality icon in the monitor.

Aspect Ratio

Pictures taken at an image quality setting of 9M 3:2 have an aspect ratio of 3:2, the same as a frame of 35-mm film. Pictures taken at other settings have an aspect ratio of 4:3.



4:3



3:2

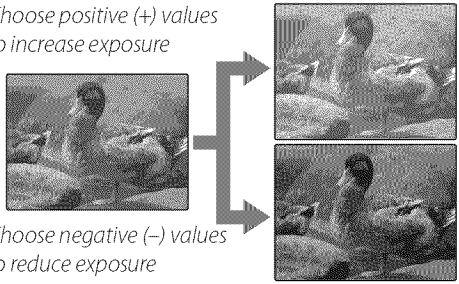
Note

Image quality is not reset when the camera is turned off or another shooting mode is selected.

EXP. COMPENSATION

Use exposure compensation when photographing very bright, very dark, or high-contrast subjects.

Choose positive (+) values to increase exposure



Choose negative (–) values to reduce exposure

Choosing an Exposure Compensation Value

- **Backlit subjects**: choose values from +⅔ EV to +1⅔ EV (for an explanation of the term "EV", see the Glossary on page 93)



- **Highly reflective subjects or very bright scenes** (e.g., snowfields): +1 EV



- **Scenes that are mostly sky**: +1 EV
- **Spotlit subjects** (particularly if photographed against dark backgrounds): –⅔ EV
- **Subjects with low reflectivity** (pine trees or dark-colored foliage): –⅔ EV

Note

At settings other than ±0, a ± icon is displayed in the monitor. Exposure compensation is not reset when the camera is turned off; to restore normal exposure control, choose a value of ±0.

PHOTOMETRY

Choose how the camera meters exposure when Intelligent Face Detection is off.

- **MULTI**: Automatic scene recognition is used to adjust exposure for a wide range of shooting conditions.
- **SPOT**: The camera meters lighting conditions at the center of the frame. Recommended when the background is much brighter or darker than the main subject. Can be used with focus lock (pg. 23) to meter off-center subjects.
- **AVERAGE**: Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting.

WHITE BALANCE

For natural colors, choose a setting that matches the light source (for an explanation of "white balance," see the Glossary on page 93).

Option	Description
AUTO	White balance adjusted automatically.
☀	For subjects in direct sunlight.
☁	For subjects in the shade.
▦1	Use under "daylight" fluorescent lights.
▦2	Use under "warm white" fluorescent lights.
▦3	Use under "cool white" fluorescent lights.
💡	Use under incandescent lighting.

If **AUTO** does not produce the desired results (for example, when taking close-ups), choose the option that matches the light source.

Notes

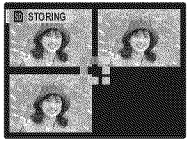
- Auto white balance is used with the flash. Turn the flash off (pg. 26) to take pictures at other settings.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the monitor.

CONTINUOUS (Continuous Shooting)

Select **ON** to capture motion in a series of pictures. The camera takes up to three pictures while the shutter-release button is pressed.

Notes

- The flash turns off automatically (pg. 26), and focus and exposure are determined by the first frame in each series. The previously-selected flash mode is restored when **OFF** is selected for **CONTINUOUS**.
- Frame rate varies with shutter speed.
- The number of pictures that can be recorded depends on the memory available. Additional time may be required to record pictures when shooting ends. The pictures are displayed in the monitor while recording is in progress.

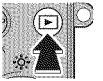


The Playback Menu

The playback menu is used to manage the pictures in internal memory or on the memory card.

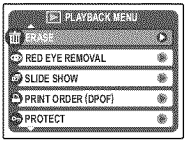
Using the Playback Menu

1 Press ▶ for about a second to enter playback mode (pg. 35).



2 Press **MENU/OK** to display the playback menu.



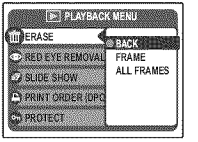


3 Press the selector up or down to highlight the desired menu item.



4 Press the selector right to display options for the highlighted item.





5 Press the selector up or down to highlight the desired option.



6 Press **MENU/OK** to select the highlighted option.



Playback Menu Options

The following options are available:

Option	Description
ERASE	Delete all or selected pictures (pg. 38).
RED-EYE REMOVAL	Create copies with reduced red eye (pg. 66).
SLIDE SHOW	View pictures in a slide show (pg. 67).
PRINT ORDER (DPOF)	Select pictures for printing on DPOF- and PictBridge-compatible devices (pg. 47).
PROTECT	Protect pictures from accidental deletion (pg. 68).
COPY	Copy pictures between internal memory and a memory card (pg. 69).
IMAGE ROTATE	Rotate pictures (pg. 71).
TRIMMING	Create cropped copies of pictures (pg. 72).
SET-UP	Perform basic camera setup (pg. 73).

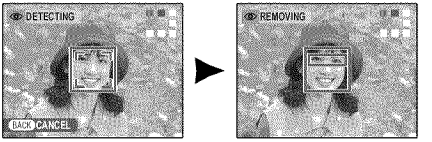
RED EYE REMOVAL

This option is used with pictures taken using Intelligent Face Detection to create copies that have been processed to remove red eye.

1 Play the picture back in the monitor (pictures taken with Intelligent Face Detection are indicated by a [face] icon) and select **RED EYE REMOVAL** in the playback menu (pg. 64).



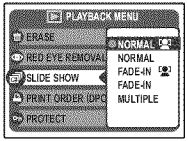
2 Press **MENU/OK**. The message shown below at left will be displayed while the camera analyses the image; if red-eye is detected, the message shown below at right will be displayed while the camera processes the image to create a copy with reduced red-eye.



Notes

- Red eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.
- The amount of time needed to process the image varies with the number of faces detected.
- Copies created with **RED EYE REMOVAL** are indicated by a [eye] icon during playback.

SLIDE SHOW



View pictures in an automated slide show. Choose the type of show and press **MENU/OK** to start. Press **DISP/BACK** at any time during the show to view on-screen help. When a movie is displayed, movie playback will begin automatically, and the slide show will continue when the movie ends. The show can be ended at any time by pressing **MENU/OK**.

Note

The camera will not turn off automatically while a slide show is in progress.

Option	Description
NORMAL	Press selector left or right to go back or skip ahead one frame. Select **FADE-IN** for fade transitions between frames.
FADE-IN	
NORMAL	As above, except that camera automatically zooms in on faces selected with Intelligent Face detection (pg. 20).
FADE-IN	
MULTIPLE	Display several pictures at once.

PROTECT

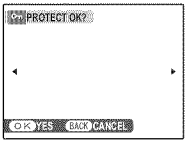
Protect pictures from accidental deletion. The following options are available.

■ FRAME

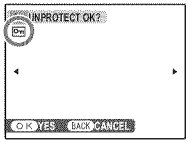
Protect selected pictures.

1 Press the selector left or right to display the desired picture.





Picture not protected

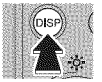


Protected picture

2 Press **MENU/OK** to protect the picture. If the picture is already protected, pressing **MENU/OK** will remove protection from the image.



3 Repeat steps 1–2 to protect additional images. Press **DISP/BACK** to exit when the operation is complete.



■ SET ALL

Press **MENU/OK** to protect all pictures, or press **DISP/BACK** to exit without changing picture status.

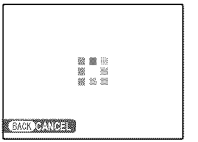


■ RESET ALL

Press **MENU/OK** to remove protection from all pictures, or press **DISP/BACK** to exit without changing picture status.



If the number of pictures affected is very large, the display at right will appear in the monitor while the operation is in progress. Press **DISP/BACK** to exit before the operation is complete.



Caution

Protected pictures will be deleted when the memory card or internal memory is formatted (pg. 78).

COPY

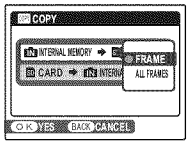
Copy pictures between internal memory and a memory card.

1 Press the selector up or down to highlight **INTERNAL MEMORY ➡ CARD** (copy pictures from internal memory to the memory card) or **CARD ➡ INTERNAL MEMORY** (copy pictures from a memory card to internal memory).



2 Press the selector right to display options for the highlighted item.





3 Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.



4 Press **MENU/OK**.

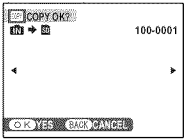


Tip: Copying Pictures Between Memory Cards

To copy pictures between two memory cards, insert the source card and copy the pictures to internal memory, then remove the source card, insert the destination card, and copy the pictures from internal memory.

■ FRAME

Copy selected frames.



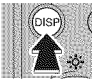
1 Press the selector left or right to display the desired picture.



2 Press **MENU/OK** to copy the picture.

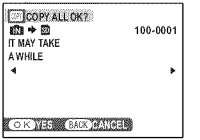


3 Repeat steps 1–2 to copy additional images. Press **DISP/BACK** to exit when the operation is complete.



■ ALL FRAMES

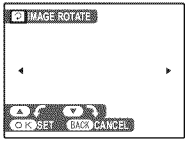
Press **MENU/OK** to copy all pictures, or press **DISP/BACK** to exit without copying pictures.



Cautions

- Copying ends when the destination is full.
- DPOF print information is not copied (pg. 47).

IMAGE ROTATE



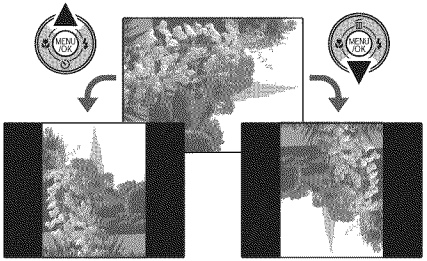
By default, pictures taken in tall orientation are displayed in wide orientation. Use this option to display pictures in the correct orientation in the monitor. It has no effect on pictures displayed on a computer or other device.

Notes

- Protected pictures can not be rotated. Remove protection before rotating pictures (pg. 68).
- The camera may not be able to rotate pictures created with other devices.

To rotate a picture, play the picture back and select **IMAGE ROTATE** in the playback menu (pg. 64).

1 Press the selector down to rotate the picture 90° clockwise, up to rotate the picture 90° counterclockwise.



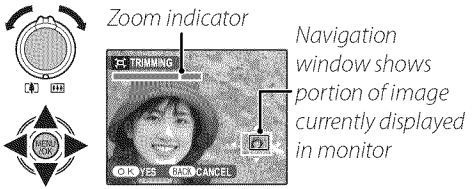
2 Press **MENU/OK** to confirm the operation (to exit without rotating the picture, press **DISP/BACK**).

The next time the picture is played back, it will automatically be rotated.

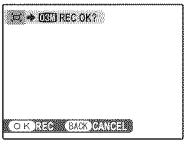
TRIMMING

To create a cropped copy of a picture, play the picture back and select **TRIMMING** in the playback menu (pg. 64).

1 Use the zoom control to zoom in and out and use the selector to scroll the picture until the desired portion is displayed (to exit to single-frame playback without creating a cropped copy, press **DISP/BACK**).



2 Press **MENU/OK**. A confirmation dialog will be displayed.



Copy size (**5M**, **3M**, **2M**, or **03M**; see page 60) is shown at the top; if the size is **03M**, **OK** is displayed in yellow. Larger crops produce larger copies; all copies have an aspect ratio of 4:3.

3 Press **MENU/OK** to save the cropped copy to a separate file.

Using the Setup Menu

1 Display the setup menu.

1.1 Press **MENU/OK** to display the menu for the current mode.

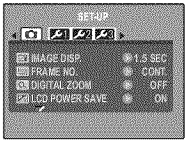


1.2 Press the selector up or down to highlight **SET-UP**.



1.3 Press the selector right to display the setup menu.





2 Choose a page.

2.1 Press the selector left or right to choose a page.



2.2 Press the selector down to enter the menu.



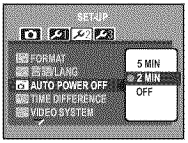
3 Adjust settings.

3.1 Press the selector up or down to highlight a menu item.



3.2 Press the selector right to display options for the highlighted item.





3.3 Press the selector up or down to highlight an option.



3.4 Press **MENU/OK** to select the highlighted option.



Setup Menu Options

	Menu item	Description	Options	Default
	IMAGE DISP.	Choose how long pictures are displayed after shooting (pg. 75).	CONTINUOUS / 3 SEC / 1.5 SEC / ZOOM (CONTINUOUS) / OFF	1.5 SEC
	FRAME NO.	Choose how files are named (pg. 76).	CONTINUOUS / RENEW	CONTINUOUS
	DIGITAL ZOOM	Enable or disable digital zoom (pg. 77).	ON / OFF	OFF
	LCD POWER SAVE	Enable or disable monitor power saving (pg. 77).	ON / OFF	ON
	DATE/TIME	Set the camera clock (pg. 13).	—	—
	OPERATION VOL.	Adjust the volume of camera controls.	(high) / (mid) / (low) / OFF (mute)	
	SHUTTER VOLUME	Adjust the volume of the shutter sound.		
	PLAYBACK VOLUME	Adjust the volume for movie playback (pg. 77).	—	7
	LCD BRIGHTNESS	Control the brightness of the monitor (pg. 77).	–5 – +5	0
	FORMAT	Format internal memory or memory cards (pg. 78).	—	—
	言語/LANG.	Choose a language (pg. 13).	See page 96	ENGLISH
	AUTO POWER OFF	Choose the auto power off delay (pg. 78).	5 MIN / 2 MIN / OFF	2 MIN
	TIME DIFFERENCE	Set the clock to local time (pg. 79).	/	
	VIDEO SYSTEM	Choose a video mode for connection to a TV (pg. 43).	NTSC / PAL	—

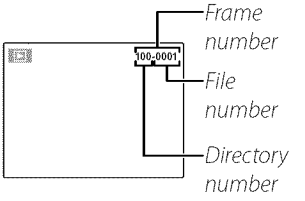
	Menu item	Description	Options	Default
	RESET	Reset all settings except **FRAME NO.**, **DATE/TIME**, **TIME DIFFERENCE**, and **VIDEO SYSTEM** to default values. A confirmation dialog will be displayed, press the selector left or right to highlight **OK** and press **MENU/OK**.	—	—

IMAGE DISP.

Choose an option other than **OFF** to display pictures in the monitor after shooting. Pictures can be displayed for 1.5 s (**1.5 SEC**), 3 s (**3 SEC**), or until the **MENU/OK** button is pressed (**CONTINUOUS** and **ZOOM (CONTINUOUS)**). If **ZOOM (CONTINUOUS)** is selected, photos taken at qualities larger than 3M can be zoomed in to check focus and other fine details (see page 36). If Intelligent Face Detection is on (pg. 20), the camera will automatically zoom in on the face used to set focus and exposure; press the selector down to cycle through the other faces detected. Note that **ZOOM (CONTINUOUS)** is disabled during continuous shooting (pg. 63), and that the colors displayed at settings of **1.5 SEC** and **3 SEC** may differ from those in the final picture.

FRAME NO.

New pictures are stored in image files named using a four-digit file number assigned by adding one to the last file number used. The file number is displayed during playback as shown at right. **FRAME NO.** controls whether file numbering is reset to 0001 when a new memory card is inserted or the current memory card or internal memory is formatted.



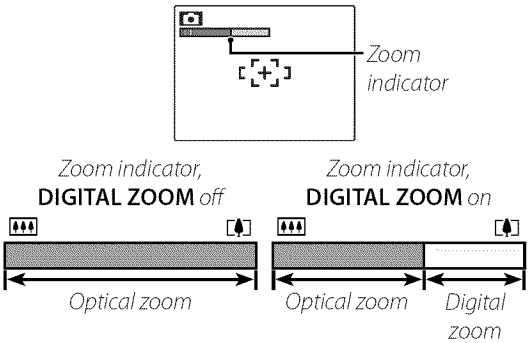
- **CONTINUOUS**: Numbering continues from the last file number used or the first available file number, whichever is higher. Choose this option to reduce the number of pictures with duplicate file names.
- **RENEW**: Numbering is reset to 0001 after formatting or when a new memory card is inserted.

Notes

- If the frame number reaches 999-9999, the shutter release will be disabled (pg. 91).
- Selecting **RESET** (pg. 75) does not reset frame numbering.
- Frame numbers for pictures taken with other cameras may differ.

DIGITAL ZOOM

If **ON** is selected, selecting [T] at the maximum optical zoom position will trigger digital zoom, further magnifying the image. To cancel digital zoom, zoom out to the minimum digital zoom position and select [W].



Caution

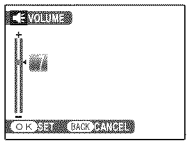
Digital zoom produces lower quality images than optical zoom.

LCD POWER SAVE

If **ON** is selected, the monitor will dim to save power if no operations are performed for a while. Full brightness can be restored by pressing the shutter button halfway. The monitor does not dim in movie mode or during playback.

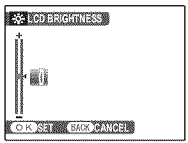
PLAYBACK VOLUME

Press the selector up or down to choose volume for movie playback and press **MENU/OK** to select.

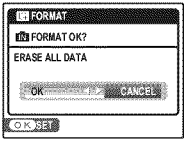


LCD BRIGHTNESS

Press the selector up or down to choose monitor brightness and press **MENU/OK** to select.



FORMAT



Format internal memory or a memory card. If a memory card is inserted in the camera, SD will be displayed in the dialog shown at right and this option will format the memory card. If no memory card is inserted, IN will be displayed and this option will format internal memory. Press the selector left to highlight **OK** and press **MENU/OK** to begin formatting.

Cautions

- All data—including protected pictures—will be deleted. Be sure important files have been copied to a computer or other storage device.
- Do not open the battery cover during formatting.

AUTO POWER OFF

Choose the length of time before the camera turns off automatically when no operations are performed. Shorter times increase battery life; if **OFF** is selected, the camera must be turned off manually. Note that regardless of the option selected, the camera will not turn off automatically when connected to a printer (pg. 44) or computer (pg. 55) or when a slide show is in progress (pg. 67).

Tip: Reactivating the Camera

To reactivate the camera after it has turned off automatically, press the **ON/OFF** button or press the ▶ button for about a second (pg. 12).

TIME DIFFERENCE

When travelling, use this option to switch the camera clock instantly from your home time zone to the local time at your destination.

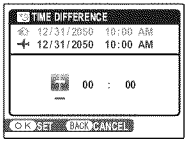
1 Specify the difference between local time and your home time zone.

1.1 Press the selector up or down to highlight ✈ **LOCAL**.



1.2 Press the selector right to display the time difference.





1.3 Press the selector left or right to highlight +, –, hours, or minutes; press up or down to edit. The minimum increment is 15 minutes.

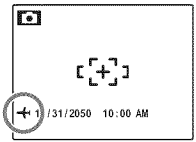


1.4 Press **MENU/OK** when settings are complete.



2 Switch between local time and your home time zone.

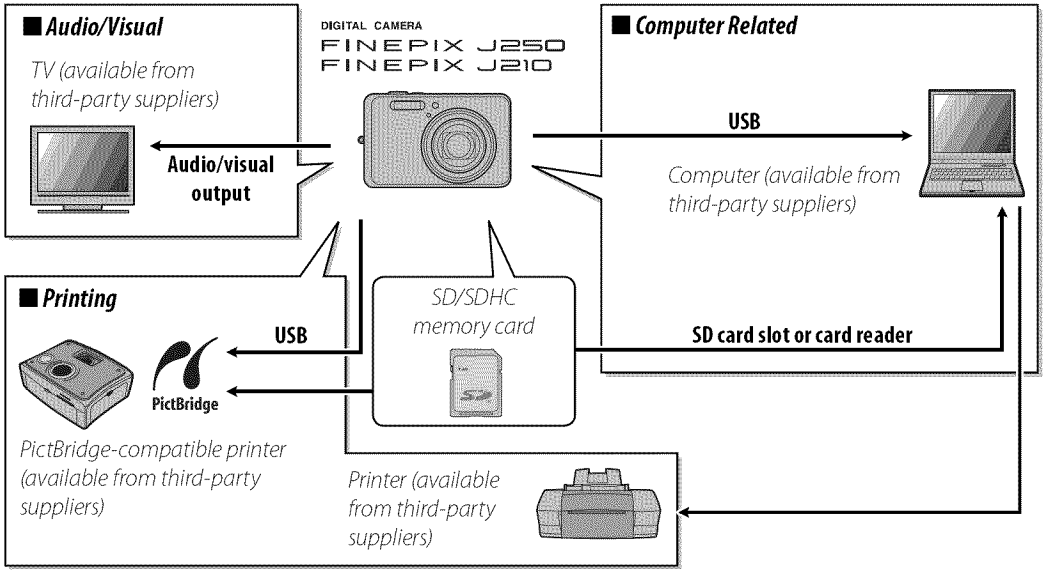
To set the camera clock to local time, highlight ✈ **LOCAL** and press **MENU/OK**. To set the clock to the time in your home time zone, select 🏠 **HOME**. If ✈ **LOCAL** is selected, ✈ will be displayed in the monitor for three seconds after the camera enters shooting mode, and the date will be displayed in yellow.



After changing time zones, check that the date and time are correct.

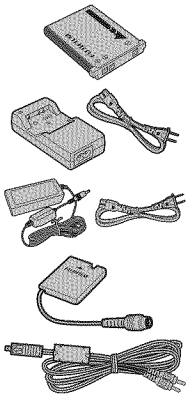
Optional Accessories

The camera supports a wide range of accessories from FUJIFILM and other manufacturers. The following accessories are available:



Accessories from FUJIFILM

The following optional accessories are available from FUJIFILM. For the latest information on the accessories available in your region, check with your local FUJIFILM representative or visit *http://www.fujifilm.com/products/digital_cameras/index.html*.



- **NP-45 rechargeable Li-ion battery** (supplied): Additional NP-45 slimline batteries can be purchased as required.
- **BC-45 battery charger**: Replacement battery chargers can be purchased as required. The BC-45 charges an NP-45 battery in about 180 minutes at +23 °C (+73 °F).
- **AC power adapter AC-5VX** (requires **DC Coupler CP-45**): Use for extended playback or when copying pictures to a computer (shape of adapter and plug vary with region of sale).
- **DC Coupler CP-45**: Connects the **AC power adapter AC-5VX** to the camera.
- **A/V cable AV-C1**: Use for viewing pictures on TV (pg. 43).

Caring for the Camera

To ensure continued enjoyment of the product, observe the following precautions.

Storage and Use

If the camera will not be used for an extended period, remove the battery and memory card. Do not store or use the camera in locations that are:

- exposed to rain, steam, or smoke
- very humid or extremely dusty
- exposed to direct sunlight or very high temperatures, such as in a closed vehicle on a sunny day
- extremely cold
- subject to strong vibration
- exposed to strong magnetic fields, such as near a broadcasting antenna, power line, radar emitter, motor, transformer, or magnet
- in contact with volatile chemicals such as pesticides
- next to rubber or vinyl products

■ *Water and Sand*

Exposure to water and sand can also damage the camera and its internal circuitry and mechanisms. When using the camera at the beach or seaside, avoid exposing the camera to water or sand. Do not place the camera on a wet surface.

■ *Condensation*

Sudden increases in temperature, such as occur when entering a heated building on a cold day, can cause condensation inside the camera. If this occurs, turn the camera off and wait an hour before turning it on again. If condensation forms on the memory card, remove the card and wait for the condensation to dissipate.

Cleaning

Use a blower to remove dust from the lens and monitor, then gently wipe with a soft, dry cloth. Any remaining stains can be removed by wiping gently with a piece of FUJIFILM lens-cleaning paper to which a small amount of lens-cleaning fluid has been applied. Care should be taken to avoid scratching the lens or monitor. The camera body can be cleaned with a soft, dry cloth. Do not use alcohol, thinner, or other volatile chemicals.

Traveling

Keep the camera in your carry-on baggage. Checked baggage may suffer violent shocks that could damage the camera.

Power and Battery

Problem		Possible cause	Solution	Page
Power supply	The camera does not turn on.	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 7
		The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	7
		The battery-chamber cover is not latched.	Latch the battery-chamber cover.	8
		The AC adapter and DC coupler are not connected properly.	Make sure that the AC adapter and DC coupler are properly connected.	—
	The battery runs down quickly.	The battery is cold.	Warm the battery by placing it in a pocket or other warm place and re-insert it in the camera immediately before taking a picture.	7
		The camera is in SR AUTO mode.	Select another shooting mode.	30
		There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery.	—
	The camera turns off suddenly.	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 7
		The AC adapter or DC coupler has been disconnected.	Make sure that the AC adapter and DC coupler are properly connected.	—
Battery charger	Charging does not start.	The battery is not correctly inserted.	Re-insert the battery in the charger.	5
		The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	5
	Charging is slow.	The temperature is low.	Charge the battery at room temperature.	—
	The charging lamp lights, but the battery does not charge.	There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery. If the battery still fails to charge, contact your FUJIFILM dealer.	—

Menus and Displays

Problem	Possible cause	Solution	Page
Menus and displays are not in English.	English is not selected for the 言語/LANG. option in the setup menu.	Select **ENGLISH**.	13

Shooting

Problem		Possible cause	Solution	Page
Taking pictures	No picture is taken when the shutter button is pressed.	Memory is full.	Insert a new memory card or delete pictures.	9, 38
		Memory is not formatted.	Format the memory card or internal memory.	78
		There is dirt on the memory card contacts.	Clean the contacts with a soft, dry cloth.	10
		The memory card is damaged.	Insert a new memory card.	9
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 7
		The camera has turned off automatically.	Turn the camera on.	12, 78
	The monitor goes dark after shooting.	The flash has fired.	The monitor may darken while the flash charges. Wait for the flash to charge.	26
Focus	The camera does not focus.	The subject is close to the camera.	Select macro mode.	25
		The subject is far away from the camera.	Cancel macro mode.	
		The subject is not suited to autofocus.	Use focus lock.	23

	Problem	Possible cause	Solution	Page
Intelligent Face Detection	Face detection not available.	Intelligent Face Detection is not available in the current shooting mode.	Choose a different shooting mode.	30
	No face is detected.	The subject's face is obscured by sunglasses, a hat, long hair, or other objects.	Remove the obstructions.	20
		The subject's face occupies only a small area of the frame.	Change the composition so that the subject's face occupies a larger area of the frame.	
		The subject's head is tilted or horizontal.	Ask the subject to hold head straight.	
		The camera is tilted.	Hold the camera straight.	15
		The subject's face is poorly lit.	Shoot in bright light.	—
	Wrong subject selected.	The selected subject is closer to the center of the frame than the main subject.	Recompose the picture or turn face detection off and frame the picture using focus lock.	23
Close-ups	Macro mode is not available.	Macro mode is not available in the current shooting mode.	Choose a different shooting mode.	30
Flash	The flash does not fire.	The flash is charging.	Wait for the flash to charge.	18
		The flash is not available in the current shooting mode.	Choose a different shooting mode.	30
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 7
		The camera is in continuous mode.	Select **OFF** for **CONTINUOUS**.	63
		The flash is off (⊘).	Choose a different flash mode.	26
	Flash mode not available.	The desired flash mode is not available in the current shooting mode.	Choose a different shooting mode.	30
		The camera is in silent mode.	Turn silent mode off.	18
	The flash does not fully light the subject.	The subject is not in range of the flash.	Position the subject in range of the flash.	96
		The flash window is obstructed.	Hold the camera correctly.	15

Problem		Possible cause	Solution	Page
Problem images	Pictures are blurred.	The lens is dirty.	Clean the lens.	82
		The lens is blocked.	Keep objects away from the lens.	15
		!AF is displayed during shooting and the focus frame is displayed in red.	Check focus before shooting.	17, 23, 89
		! is displayed during shooting.	Use the flash or a tripod.	26
	Pictures are mottled.	The ambient temperature is high and the subject is poorly lit.	This is normal and does not indicate a malfunction. Choose a lower sensitivity.	59
Recording	Pictures are not recorded.	Power was interrupted during shooting.	Turn the camera off before connecting the AC adapter/DC coupler. Leaving the camera on can result in corrupted files or damage to the memory card or internal memory.	—

Playback

Problem		Possible cause	Solution	Page
Pictures	Pictures are grainy.	The pictures were taken with a different make or model of camera.	—	—
	Playback zoom unavailable.	The pictures were taken at an image size of **03M** or with a different make or model of camera.	—	—
Audio	No sound in movie playback.	Playback volume is too low.	Adjust playback volume.	42, 77
		The microphone was obstructed.	Hold the camera correctly during recording.	40
		The speaker is obstructed.	Hold the camera correctly during playback.	40
Deletion	Selected pictures are not deleted.	Some of the pictures selected for deletion are protected.	Remove protection using the device with which it was originally applied.	68
Frame no.	File numbering is unexpectedly reset.	The battery-chamber cover was opened while the camera was on.	Turn the camera off before opening the battery-chamber cover to replace the battery or insert a memory card.	12, 76

Connections

Problem		Possible cause	Solution	Page
TV	No picture or sound.	The camera is not properly connected.	Connect the camera correctly.	43
		The supplied A/V cable was connected during movie playback.	Connect the camera once movie playback has ended.	42, 43
		Input on the television is set to "TV".	Set input to "VIDEO".	—
		The camera is not set to the correct video standard.	Match the camera **VIDEO SYSTEM** setting to the TV.	43, 74
		The volume on the television is too low.	Adjust the volume.	—
	No color.	The camera is not set to the correct video standard.	Match the camera **VIDEO SYSTEM** setting to the TV.	43, 74
Computer	The computer does not recognize the camera.	The camera is not properly connected.	Connect the camera correctly.	55
PictBridge	Pictures can not be printed.	The camera is not properly connected.	Connect the camera correctly.	44
		The printer is off.	Turn the printer on.	—
	Only one copy is printed.	The printer is not PictBridge-compatible.	—	—
	The date is not printed.			

Miscellaneous

Problem	Possible cause	Solution	Page
Nothing happens when the shutter button is pressed.	Temporary camera malfunction.	Remove and reinsert the battery or disconnect and reconnect the AC adapter/DC coupler.	7
	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	5, 7
The camera does not function as expected.	Temporary camera malfunction.	Remove and reinsert the battery or disconnect and reconnect the AC adapter/DC coupler. If the problem persists, contact your FUJIFILM dealer.	7, 100
No sound in movie playback.	The camera is in silent mode.	Turn silent mode off.	18

Warning Messages and Displays

The following warnings are displayed in the monitor:

Warning	Description	Solution
(red)	Low battery.	Charge the battery or insert a fully-charged spare battery.
(blinks red)	Battery exhausted.	
	Slow shutter speed. Picture may be blurred.	Use the flash or mount the camera on a tripod.
!AF (displayed in red with red focus frame)	The camera can not focus.	• Use focus lock to focus on another subject at the same distance, then recompose the picture (pg. 23). • If the subject is poorly lit, try focusing at a distance of about 2 m (6.6 ft.). • Use macro mode to focus when taking close-ups.
!AE (blinks red)	The subject is too bright or too dark. The picture will be over- or under-exposed.	If the subject is dark, use the flash.
FOCUS ERROR	Camera malfunction.	Turn the camera off and then on again, taking care not to touch the lens. If the message persists, contact a FUJIFILM dealer (pg. 100).
ZOOM ERROR		
NO CARD	No memory card inserted when **COPY** is selected in the playback menu.	Insert a memory card.
CARD NOT INITIALIZED	The memory card or internal memory is not formatted.	Format the memory card or internal memory (pg. 78).
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 78). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer (pg. 100).
PROTECTED CARD	The memory card is locked.	Unlock the memory card (pg. 9).
BUSY	The memory card is incorrectly formatted.	Use the camera to format the memory card (pg. 78).

Warning	Description	Solution
CARD ERROR	The memory card is not formatted for use in the camera.	Format the memory card (pg. 78).
	The memory card contacts require cleaning or the memory card is damaged.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 78). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer (pg. 100).
SD MEMORY FULL	The memory card or internal memory is full; pictures can not be recorded or copied.	Delete pictures or insert a memory card with more free space.
IN MEMORY FULL		
INTERNAL MEMORY IS FULL INSERT A NEW CARD		
WRITE ERROR	Memory card error or connection error.	Re-insert the memory card or turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer (pg. 100).
	Not enough memory remaining to record additional pictures.	Delete pictures or insert a memory card with more free space.
	The memory card or internal memory is not formatted.	Format the memory card or internal memory (pg. 78).
READ ERROR	The file is corrupt or was not created with the camera.	The file can not be played back.
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 78). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer (pg. 100).

Warning	Description	Solution
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999).	Format the memory card and select **RENEW** for the **FRAME NO.** option in the **SETUP** menu. Take a picture to reset frame numbering to 100-0001, then return to the **FRAME NO.** menu and select **CONTINUOUS**.
TOO MANY FRAMES	Date for which more than 4,999 pictures exist selected in sort-by-date view.	Choose a different date.
CAN NOT EXECUTE CAN NOT EXECUTE	Red-eye reduction can not be applied to the selected picture or movie.	—
PROTECTED FRAME	An attempt was made to delete or rotate a protected picture.	Remove protection before deleting or rotating pictures.
NO IMAGE NO IMAGE	The source device selected in the playback **COPY** menu contains no pictures.	Select a different source.
CAN NOT TRIM	An attempt was made to crop a picture.	These pictures can not be cropped.
CAN NOT TRIM	The picture selected for cropping is damaged or was not created with the camera.	
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images.	Copy the pictures to internal memory and create a new print order.
CAN NOT SET DPOF	The picture can not be printed using DPOF.	—
CAN NOT SET DPOF	Movies can not be printed using DPOF.	—
CAN NOT ROTATE	The picture can not be rotated.	—
CAN NOT ROTATE	Movies can not be rotated.	—
COMMUNICATION ERROR	A connection error occurred while pictures were being printed or copied to a computer or other device.	Confirm that the device is turned on and that the USB cable is connected.

Warning	Description	Solution
PRINTER ERROR	Printer out of paper or ink, or other printer error.	Check printer (see printer manual for details). To resume printing, turn the printer off and then turn it back on.
PRINTER ERROR RESUME?		Check printer (see printer manual for details). If printing does not resume automatically, press **MENU/OK** to resume.
CAN NOT BE PRINTED	An attempt was made to print a movie, a picture not created with the camera, or a picture in a format not supported by the printer.	Movies and some pictures created with other devices can not be printed. If the picture was created with the camera, check the printer manual to confirm that the printer supports the JFIF-JPEG or Exif-JPEG format. If it does not, the pictures can not be printed.

Glossary

Digital zoom: Unlike optical zoom, digital zoom does not increase the amount of visible detail. Instead, details visible using optical zoom are simply enlarged, producing a slightly "grainy" image.

DPOF (Digital Print Order Format): A standard that allows pictures to be printed from "print orders" stored in internal memory or on a memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.

EV (Exposure Value): The exposure value is determined by the sensitivity of the image sensor and the amount of light that enters the camera while the image sensor is exposed. Each time the amount of light doubles, EV increases by one; each time the amount of light is halved, EV decreases by one. The amount of light entering the camera can be controlled by adjusting aperture and shutter speed.

Exif Print: A standard that allows information stored with pictures to be used for optimal color reproduction during printing.

JPEG (Joint Photographic Experts Group): A compressed file format for color images. The higher the compression rate, the greater the loss of information and more noticeable drop in quality when the picture is displayed.

Motion JPEG: An AVI (Audio Video Interleave) format that stores images and sound in a single file, with the images recorded in JPEG format. Motion JPEG files can be played in QuickTime 3.0 or later.

Smear: A phenomenon specific to CCDs which causes white streaks to appear when very bright light sources, such as the sun or reflected sunlight, appear in the frame.

White balance: The human brain automatically adapts to changes in the color of light, with the result that objects that appear white under one light source still appear white when the color of the light source changes. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This process is known as "white balance."

Internal Memory/Memory Card Capacity

The following table shows the recording time or number of pictures available at different image qualities. All figures are approximate; file size varies with the scene recorded, producing wide variations in the number of files that can be stored. The number of exposures or length remaining may not diminish at an even rate.

		10M F	10M N	9M 3:2	5M	3M	2M	03M	640	320
Image size (pixels)		3648×2736		3648×2432	2592×1944	2048×1536	1600×1200	640×480	640×480 (VGA)	320×240 (QVGA)
File size		5.0 MB	2.5 MB	2.3 MB	1.3 MB	810 KB	650 KB	160 KB	—	—
Internal memory (approx. 23 MB)		4	8	9	17	28	35	147	28 sec	51 sec
SD card	**512 MB**	95	190	220	380	600	750	3090	9 min	17 min
	1 GB	200	390	440	770	1210	1510	6190	19 min	35 min
	2 GB	400	790	880	1540	2380	2950	12400	39 min	71 min
SDHC card	**4 GB**	800	1590	1770	3100	4770	5900	24820	79 min*	143 min*
	8 GB	1610	3190	3550	6220	9570	11850	49800	160 min*	288 min*
	16 GB	3240	6400	7130	12480	19200	23780	99880	321 min*	577 min*

* Total length of all movie files. Individual movies can not exceed 2 GB, regardless of capacity of memory card.

Specifications

System	
Model	Digital Camera FinePix J250/FinePix J210
Effective pixels	10 million
CCD	1/2.3-in., square-pixel CCD with primary color filter
Storage media	• Internal memory (approx. 23 MB) • SD/SDHC memory cards (see page 9)
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File format	• **Still pictures**: Exif 2.2 JPEG (compressed) • **Movies**: Motion JPEG AVI
Image size (pixels)	• **10M F**: 3,648×2,736 • **10M N**: 3,648×2,736 • **9M 3:2**: 3,648×2,432 • **5M**: 2,592×1,944 • **3M**: 2,048×1,536 • **2M**: 1,600×1,200 • **03M**: 640×480
File size	See page 94
Lens	Fujinon 5× optical zoom lens, F/3.3 (wide angle) – 5.1 (telephoto)
Focal length	f=5.1 mm–25.5 mm (35-mm format equivalent: 28 mm–140 mm, or 29.1 mm–145.6 mm at **9M 3:2**)
Digital zoom	Approx. 5.7× (up to 28.5× when combined with optical zoom)
Aperture	F3.3/F5.2 (wide angle), F5.1/F8.0 (telephoto)
Focus range (distance from front of lens)	Approx. 60 cm (2 ft.)–infinity (wide angle); 1.2 m (3.9 ft.)–infinity (telephoto) Macro mode: approx. 5 cm–80 cm/0.2ft.–2.6 ft. (wide angle); 70cm–150cm/2.3 ft.–4.9 ft. (telephoto)
Sensitivity	Equivalent to ISO 64, 100, 200, 400, 800, 1600, 3200 (max. image size **3M**); **AUTO** (Standard Output Sensitivity)
Metering	256-segment through-the-lens (TTL) metering; MULTI, SPOT, AVERAGE
Exposure control	Programmed autoexposure
Exposure compensation	–2 EV – +2 EV in increments of 1/3 EV (**M** mode)
Scene modes	(DIGITAL ZOOM), (RED-EYE REDUCTION), **M** (MANUAL), (BABY MODE), (PORTRAIT), (PICTURE STABILIZATION) (FinePix J210 only), (LANDSCAPE), (SPORT), (NIGHT), (NIGHT (TRIPOD)), (NATURAL LIGHT), (BEACH), (SNOW), (FIREWORKS), (SUNSET), (FLOWER), (PARTY), (MUSEUM), TEXT (TEXT)
Image stabilization	**FinePix J250**: DUAL IS MODE (CCD shift) **FinePix J210**: PICTURE STABILIZATION
Intelligent Face Detection	Available

System	
Shutter speed	📷: ¼ s–1/2,000 s, 🌼: 8 s–½ s, other modes: 8 s–1/2,000 s, combined mechanical and electronic shutter
Continuous	Up to three frames at a maximum of approximately 1.7 fps
Focus	• **Mode**: Single AF • **Autofocus system**: Contrast-detect TTL AF • **Focus-area selection**: AF CENTER
White balance	Automatic scene detection; six manual preset modes for direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, and incandescent lighting
Self-timer	Approx. 2 s and approx. 10 s
Flash	Auto flash
Effective range (sensitivity set to ISO 400)	Approx. 60 cm–3 m/2 ft.–9.8 ft. (wide angle), 1.2 m–1.9 m/3.9 ft.–6.2 ft. (telephoto) Macro mode: approx. 30 cm–80 cm/1 ft.–2.6 ft. (wide angle); 70 cm–1.5 m/2.3 ft.–4.9 ft. (telephoto)
Flash modes	Auto, forced flash, off, slow synchro (red-eye removal off); auto with red-eye reduction, forced flash with red-eye reduction, off, slow synchro with red-eye reduction (red-eye removal on)
Monitor	**FinePix J250**: 3.0-in., 230k-dot amorphous silicon TFT color LCD monitor; frame coverage approx. 97% **FinePix J210**: 2.7-in., 230k-dot amorphous silicon TFT color LCD monitor; frame coverage approx. 97%
Movies	Camera can record movies with monaural sound and a frame size of 640×480 (640) or 320×240 (320) at a frame rate of 30 fps
Shooting options	Scene recognition, Intelligent Face Detection with red-eye removal, framing guideline, and frame number memory
Playback options	Intelligent Face Detection with red-eye removal, micro thumbnail, multi-frame playback, sort-by-date, cropping (still pictures only), slide show, and image rotation
Other options	PictBridge, Exif Print, language selection (Simplified Chinese, Traditional Chinese, Czech, Dutch, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Thai, and Turkish), time difference

Input/output terminals	
A/V OUT (audio/video output)	NTSC or PAL with monaural sound
Digital input/output	USB 2.0 High Speed with MTP/PTP connection
Power supply/other	
Power sources	NP-45 rechargeable battery
Battery life (NP-45)	Approx. 150 frames for FinePix J250 and approx. 180 frames for FinePix J210, based on CIPA (Camera and Imaging Products Association) standard; measured at 23 °C (73 °F) with the monitor on, pictures recorded to an SD memory card, the camera zoomed from widest angle to maximum zoom and back once every 30 s, the flash fired at full power with every other shot, and the camera turned off and then on again every 10 shots. Note that the number of shots that can be taken with a fully-charged battery varies with temperature and shooting conditions.
Camera dimensions	92 mm × 57.9 mm × 22.6 mm/3.6 in. × 2.3 in. × 0.9 in. (W × H × D), excluding projections
Shooting weight	**FinePix J250**: Approx. 168 g/5.9 oz., including battery and memory card **FinePix J210**: Approx. 158 g/5.6 oz., including battery and memory card
Camera weight	**FinePix J250**: Approx. 151 g/5.3 oz., excluding battery, accessories, and memory cards **FinePix J210**: Approx. 141 g/5.0 oz., excluding battery, accessories, and memory cards
Operating conditions	• **Temperature**: 0 °C – +40 °C/+32 °F – +104 °F • **Humidity**: 80% or less (no condensation)

NP-45 rechargeable battery	
Nominal voltage	DC 3.7 V
Nominal capacity	740 mAh
Operating temperature	0 °C – +40 °C/+32 °F – +104 °F
Dimensions (W × H × D)	31 mm × 39.4 mm × 5.7 mm/1.2 in. × 1.6 in. × 0.2 in.
Weight	Approx. 15 g/0.5 oz.
BC-45A battery charger	
Rated input	100 V–240 V AC, 50/60 Hz
Input capacity	7.0 VA (100 V)/10.8 VA (240 V)
Rated output	4.2 V DC, 550 mA
Supported batteries	NP-45 rechargeable batteries
Charging time	Approx. 100 minutes
Dimensions (W × H × D)	**Built-in plug model**: 101.7 mm × 56 mm × 20 mm/4.0 in. × 2.2 in. × 0.8 in. **Power cable model**: 85 mm × 54 mm × 20 mm/3.3 in. × 2.1 in. × 0.8 in.
Weight	**Built-in plug model**: Approx. 66 g/2.3 oz., excluding battery **Power cable model**: Approx. 56 g/2.0 oz., excluding battery
Operating temperature	0 °C – +40 °C/+32 °F – +104 °F

Notes on the Battery and Battery Charger

- The battery and charger may become warm to the touch during charging. This is normal and does not indicate a malfunction. If possible, charge the battery in a well-ventilated location.
- The battery charger may vibrate when in use. This is normal and does not indicate a malfunction.
- The charger is for use with NP-45 batteries only.
- If the charger causes radio interference, increase the distance between the charger and the radio receiver.
- Do not leave the charger in locations that are very dusty or exposed to strong vibration, extreme humidity, or high temperatures (for example, in direct sunlight or next to a heater).
- The battery charger can be used with input voltages of 100–240 V AC and 50 or 60 Hz. The shape of the plug varies with the country of sale; consult your travel agent to determine whether the charger can be used abroad.

Color Television Systems

NTSC (**N**ational **T**elevision **S**ystem **C**ommittee) is a color television telecasting specification adopted mainly in the U.S.A., Canada, and Japan. PAL (**P**hase **A**lternation by **L**ine) is a color television system adopted mainly in European countries and China.

Notices

- Specifications subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this manual.
- Although the monitor is manufactured using advanced high-precision technology, small bright points and anomalous colors (particularly in the vicinity of text) may appear. This is normal for this type of monitor and does not indicate a malfunction; images recorded with the camera are unaffected.
- Digital cameras may malfunction when exposed to strong radio interference (e.g., electric fields, static electricity, or line noise).
- Due to the type of lens used, some distortion may occur at the periphery of images. This is normal.

FUJIFILM Digital Camera Worldwide Network

Contact your local distributor (see list below) for repairs and technical support. Please present the warranty and purchase receipt when requesting repairs; refer to the warranty card for the conditions of the warranty. Technical support may not be available for models not handled by the local distributor. The following information is subject to change without notice.

NORTH AMERICA			
Canada	**FUJIFILM Canada Inc.**	Technical support	TEL 1-866-818-FUJI (3854) *http://www.fujihelp.ca*
		Repair service	TEL 1-800-263-5018 *http://www.fujihelp.ca*
U.S.A.	**FUJIFILM U.S.A., Inc.**	Technical support	TEL 800-800-3854 *digitalinfo@fujifilm.com*
		Repair service	TEL 800-659-3854
CENTRAL AND SOUTH AMERICA			
Argentina	**Imagen e informacion S.A.**	Technical support & repairs	TEL +54-11-4836-1000 *servtec@imageneinformacion.com.ar*
Bolivia	**Reifschneider Bolivia Ltda.**	Technical support & repairs	TEL +591 33 44 1129 *gciagral@bibosi.scz.entelnet.bo*
Brazil	**FUJIFILM do Brasil Ltda.**	Technical support & repairs	TEL 0800-12-8600 *camarasdigitais@fujifilm.com.br*
Chile	**Reifschneider SA**	Technical support & repairs	TEL 56-2-6781200 *serviciotecnico@reifschneider.cl*
Colombia	**Animex de Colombia Ltda.**	Technical support & repairs	TEL +57 1 338-0299 *animex@etb.net.co*
Ecuador	**Espacri Cia Ltda**	Technical support & repairs	TEL 593-72-835526
	Importaciones Espacri Cia. Ltda.	Technical support & repairs	TEL +593 783 5526 *portiz@fujifilm.com.ec*
Mexico	**Fujifilm de Mexico, S.A. de C.V.**	Technical support	TEL (52-55) 5263-55000 *eizquierdo@fujifilm.com.mx*
		Repair service	TEL (52-55) 5366-5150/56/57 *cpalma@fujifilm.com.mx*
Paraguay	**Errece S.R.L.**	Technical support & repairs	TEL +595 21 444256 *jmarbulo@fujifilm.com.py*
Peru	**Procesos de Color S.A.**	Technical support & repairs	TEL +51 14 33 5563 *jalvarado@fujifilm.com.pe*
Uruguay	**Fotocamara S.R.L.**	Technical support & repairs	TEL +598-2-9002004 *fotocam@adinet.com.uy*
	Kiel S.A.	Technical support & repairs	TEL (05982) 419 4542 *kiel@fujifilm.com.uy*
Venezuela	**C. Hellmund & Cia Sa**	Technical support & repairs	TEL 0212-2022300 *hellmund@hellmund.com*
EUROPE			
Austria	**Fuji Film Oesterreich**	Technical support & repairs	TEL 0043 1 6162606/51 or 52 *kamera.service@fujifilm.at*
Belgium	**Belgian Fuji Agency**	Technical support & repairs	TEL 3210242090 *info@fuji.be*
Croatia	**I&I d.o.o.**	Technical support	TEL 38512319060 *dsaravanja@fujifilm.hr*
		Repair service	TEL 38512316228 *info@fujifilm.hr*

EUROPE			
Cyprus	**PMS IMAGING LTD**	Technical support & repairs	TEL 35722746746 *mariosashiotis@fujifilm.com.cy*
	Doros Neophytou CAMERA REPAIRS	Technical support & repairs	TEL 35722314719 *dorosn@logosnet.cy.net*
Czech Republic	**Fujifilm Cz., s.r.o.**	Technical support	TEL 00420 234 703 411 *petr.barta@fujifilm.cz*
	AWH servis	Repair service	TEL 00420 222 721 525 *awh@awh.cz*
Denmark	**Fujifilm Danmark A/S**	Technical support & repairs	TEL 0045 45662244 *fujifilm@fujifilm.dk*
Finland	**Fuji Finland Oy**	Technical support & repairs	TEL +358 9 825951 *www.fuji.fi fuji@fuji.fi*
France	**FUJIFILM France**	Technical support & repairs	*direction.technique@pm2s.fr*
Germany	**FUJIFILM Electronic Imaging Europe GmbH**	Technical support & repairs	Tel 0180 / 589 89 80* *service@fujifilm-digital.com* *0,14 EUR pro Minute aus dem deutschen Festnetz, abweichende Preise aus Mobilfunknetzen möglich,Stand bei Drucklegung.
Greece	**FUJIFILM HELLAS S.A.**	Technical support & repairs	TEL 0030 210 9404100 *fujifilm@fujifilm.gr*
Hungary	**Fujifilm Hungary Ltd.**	Technical support	TEL 3612389410 *fujifilm@fujifilm.hu*
		Repair service	TEL 3613633777
Iceland	**Icephoto (Ljosmyndavorur)**	Technical support & repairs	TEL 354 568 0450 *framkollun@fujifilm.is*
Italy	**FujiFilm Italia S.r.l.**	Call center	TEL 039-0267978181 *info@fujifilm.it*
		Repair service	TEL 039-6058294 FAX 039-6058295
Lithuania	**Fujifilm Lithuania**	Technical support & repairs	TEL 370-5-2130121 *info@fujifilm.lt*
Malta	**Ciancio (1913) Co.Ltd.**	Technical support & repairs	TEL 0356-21-480500 *info@fujifilm.com.mt*
Norway	**Fujifilm Norge AS**	Technical support	TEL 0047-02273 *http://www.fujifilm.no/ mailto:post@fujifilm.no*
		Repair service	TEL 0047-55393880 *http://www.camera.no/mailto:service@camera.no*
Poland	**Fujifilm Polska Distribution Sp. z o.o.**	Technical support	TEL +48-22-517-66-00 *fujifilm@fujifilm.pl*
		Repair service	TEL +48-22-886-94-40 *serwis@fujifilm.pl*
Portugal	**Fujifilm Portugal, Lda**	Technical support	TEL (351) 226 194 237 *finepix@fujifilm.pt*
		Repair service	TEL (351) 226 194 200 *cameras@fujifilm.pt*
Romania	**CTS-Cardinal Top Systems Ltd**	Technical support & repairs	TEL 4021-230-09-82 *cts_tirla@hotmail.com*
Russia	**Fujifilm Electronic Imaging Europe GmbH**	Technical support & repairs	TEL 8 800 200 3854 (Для бесплатных звонков из России) *Для звонков из других стран набирайте +7 800 200 3854 *http://www.fujifilm-digital.ru/ info@fujifilm-digital.ru*
Slovakia	**Fujifilm Slovakia s.r.o.**	Technical support	TEL 00421 2 33 595 107 *fujifilm@fujifilm.sk*
		Repair service	TEL 00421 2 33 595 119 *servis@fujifilm.sk*
Spain	**Fujifilm Espana S.A.**	Technical support & repairs	TEL 902012535 *http://www.fujifilm.es/soporte/ tallersat@fujifilm.es*

EUROPE			
Sweden	**Fujifilm Sverige AB**	Technical support	TEL 46 8 506 141 70 *kamera@fujifilm.se*
		Repair service	TEL 46 8 506 141 00 *kameraverkstaden@fujifilm.se*
Switzerland / Liechtenstein	**Fujifilm (Switzerland) AG**	Technical support & repairs	TEL +41 44 855 5154 *RepairCenter@fujifilm.ch*
The Netherlands	**FUJIFILM Electronic Imaging Nederland**	Technical support	TEL +31(0)102812500 *helpdesk@fujifilm-digital.nl*
		Repair service	TEL +31(0)102812520 *camerareparaties@fujifilm-digital.nl*
Turkey	**Fujifilm Turkiye Sinfo A.S.**	Technical support	TEL +90 212 696 5090 *csarp@fujifilm.com.tr*
		Repair service	TEL +90 212 696 5090 *servis@fujifilm.com.tr*
U.K.	**FUJIFILM UK Ltd.**	Technical support	TEL +44 (0)8700 841310 *fujitec@fuji.co.uk*
		Repair service	TEL +44 (0)8700 841314 *fujitec@fuji.co.uk*
Ukraine	**Image Ukraine CJSC**	Technical support & repairs	TEL +380-44-4909075 *d@fujifilm.ua*
MIDDLE EAST			
Iran	**Tehran Fuka Co.**	Technical support & repairs	TEL (+98-21)2254810-19 *fuka@neda.net*
Israel	**Shimone Group Ltd.**	Technical support	TEL (+) 972 3 9250666 *digital@fujifilm.co.il*
		Repair service	TEL (+) 972 3 9250666 *khaim@shimone.com*
Jordan	**Grand Stores Al- Abdali, Amman / Jordan**	Technical support & repairs	TEL 009626-4646387 *gstores@go.com.jo*
Lebanon	**Fototek S.A.R.L.**	Technical support & repairs	TEL +961 1 252474 *fototek@antakiholding.com*
Qatar	**Techno Blue**	Technical support	TEL 00974 44 66 175 *prabu@techno-blue.com*
Saudi Arabia	**Emam Distribution Co. Ltd.**	Technical support	TEL 96626978756 *service@fujifilm.com.sa*
Syria	**Film Trading Company**	Technical support	TEL + 963 11 2218049 *f.t.c@Net.SY*
		Repair service	TEL + 963 21 4641903 *filmtradin@Net.SY*
U.A.E.	**Grand Stores**	Technical support & repairs	TEL + 971-4-2823700 *photography@grandstores.ae*
Yemen	**Al-Haidary Trading**	Technical support	TEL 00967-1-503980
		Repair service	TEL 00967-1-503977
AFRICA			
Egypt	**Foto Express Egypt**	Technical support & repairs	TEL (202) 7762062 *fotoegypt@access.com.eg*
Kenya	**Fuji Kenya Ltd**	Repair service	TEL (254-20)4446265-8 *info@fujifilm.co.ke*
South Africa	**Cameratek CC.**	Technical support & repairs	TEL +27 11 251 2400 *www.cameratek.co.za*
OCEANIA			
Australia	**FUJIFILM Australia Pty Ltd**	Technical support & repairs	TEL 1800 226 355 *digital@fujifilm.com.au*
Fiji	**Brijlal & Co. Ltd**	Technical support & repairs	TEL (679)3304133 *kapadia@connect.com.fj*
New Caledonia	**Phocidis SARL**	Technical support & repairs	TEL (00 687) 25-46-35 *phocidis@phocidis.nc*

OCEANIA			
New Zealand	**Fujifilm NZ Ltd**	Technical support & repairs	TEL +64-9-4140400 *glenn.beaumont@fujifilm.co.nz*
Papua New Guinea	**Oceania PNG Limited**	Technical support	TEL +675 3256411 *oceania@daltron.com.pg*
ASIA			
Hong Kong	**Fuji Photo Products Co., Ltd.**	Technical support & repairs	TEL (852)2406 3287 *rsd@chinahkphoto.com.hk*
Indonesia	**PT. Modern Internasional, Tbk.**	Technical support & repairs	TEL +62 021 45867187 *assd_kmrsrv@modernphoto.co.id*
Malaysia	**FUJIFILM (Malaysia) Sdn. Bhd.**	Technical support	TEL 603-55698388 *technical@fujifilm.com.my*
		Repair service	TEL 603-55698388 *camera@fujifilm.com.my*
Philippines	**YKL Development & Trdg. Corp.**	Technical support	TEL 632-7436601~06 *info@yklcolor.com digital@yklcolor.com*
		Repair service	TEL 632-7436601~06 *techop_services@yklcolor.com*
Singapore	**FUJIFILM (Singapore) Pte Ltd**	Technical support & repairs	TEL 65-6380 5557 *service@fujifilm.com.sg*
South Korea	**Korea Fujifilm Co., Ltd.**	Technical support	TEL +82-2-3282-7363 *photo@fujifilm.co.kr*
	Yonsan AS Center (Fujidigital)	Repair service	TEL +82-2-701-1472 *1bowl@hanmail.net*
	Kangnam AS Center (Digitalgallery)	Repair service	TEL +82-2-2203-1472 *nurijili@hanmail.net*
	Busan AS Center (Digital-Sewon)	Repair service	TEL +82-51-806-1472 *merahan@yahoo.co.kr*
Taiwan	**Hung Chong Corp.**	Technical support & repairs	TEL 886-2-6602-8988 *dah@mail.hungchong.com.tw*
Thailand	**FUJIFILM (Thailand) Ltd.**	Technical support	TEL +662-2706000 ext. 751,752 *Dusit_Suriyong@fujifilm.co.th yaowarat@fujifilm.co.th*
		Repair service	TEL +662-2706000 ext.761,762 *warin@fujifilm.co.th*
Vietnam	**International Minh Viet Co., Ltd.**	Technical support & repairs	TEL +84-8-4135740 ext. 322 *diep.phanthithanh@imv.com.vn*

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